In This Issue

Just Added! Over 1,480 **New Products** 

- Electronic **Components**
- Computer **Products**
- Test **Equipment**



# The Jameco **Electronics** Catalog

Check out that Jameco Smile!

























#### **New Additions to Jameco's Product Line!**

We've added more of the most-needed, most-requested, hottest selections to this catalog: over 1,480 new products! Here are some of the highlights:

#### Rabbit Development Kits

Jameco and Rabbit
Semiconductor™ have
a new relationship,
and the first result
is 14 new Development
Kits in this catalog.



See Pages 13-15

#### **New! Optical & Illumination**

Seeing is believing!
We've added
hundreds of
optoelectronic devices
including optocouplers,
optoswitches, new ValuePro™



LEDs like the popular bright whites and bright blues, plus our ever-popular ValuePro 7-segment LED displays!

See Pages 51-61

# Now With Over 1,480 New Products

Product Line	Page #
ICs & Semiconductors	
Rabbit Development Kits	13-15
dsPIC Microcontrollers	12
MCU 87C/89C	43
ST Flash Memory	7
Digital Interface	33
Pressure Sensors	43
Optical Switches	54
Optoisolators	54
Power Supplies, Enclosed	156-160, 163
ValuePro™ Buzzers	143
ValuePro™ Capacitors	64-69
ValuePro™ Crystals	80
ValuePro™ Heat Sinks	46
ValuePro™ LED Displays	59-60
ValuePro™ LEDs	55-58
ValuePro™ Oscillators	81-82
ValuePro™ Power Cords	
ValuePro™ Resonators	82
Computer Products	
APW Rack Mount Equipment	
Motherboards	
Memory	192, 199
Processors	
Drives	193-194
Cards	
Enclosures	,
Security Products	206-209

#### Microchip Digital Signal Controllers

We continue to expand our line of Microchip microcontrollers with



a new, comprehensive family of dsPIC digital signal controllers in this catalog!

See Page 12

#### New! Oscillators, Resonators & Crystals

Now you'll find we've beefed up our ever-expanding line of crystals, resonators and oscillators.



See Pages 80-82

#### ValuePro<sup>™</sup> Capacitors

Make Jameco your
one-stop capacitor shop!
We've added hundreds of ValuePro™
capacitors, filling out our broad line with
the rock-solid reliable caps our customers
need most!

See Pages 64-70

#### Intel® Embedded CPUs

Jameco just added many of the most popular CPUs from Intel's Embedded processor line.



See Page 193

#### Just Added! e-Lab™

See Page 33

Our range of e-Lab EDExx
"building block" ICs is
now even broader!
Check this section
for a Jameco solution

to your embedded microcontroller needs!

#### **New! Mean Well Power Supplies**

Need versatile, reliable power?
We've got it for less! We've added over 60 Mean Well enclosed power supplies from the new G3 series.
That means a much smaller footprint, tighter power density and Mean Well quality at Jameco prices!

See Pages 156-160

#### More Buzzers Than Ever

No matter what your application, you can be sure that Jameco has the buzzer you need!



See Page 143

#### **Just Added! Trimmer Pots**

Attention "control" freaks!
We've added the 3352T
family of Bourns®-equivalent,
easy-to-use potentiometers to
Jameco's high-quality, low-cost
ValuePro line!
See Page 77

#### 100's of New Computer Products

We've updated and expanded our computer product offering with more Intel® and Giga-Byte® motherboards, Western Digital drives, Wintec memory modules, graphics cards, drive enclosures, APW rack mount equipment, compact flash memory and more!

See Page 192

#### **Too Many Power Cords**

Check it out! We've added over 70 new ValuePro power cords!



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### Just Acquired! www.RobotStore.com

Jameco just purchased <a href="www.RobotStore.com">www.RobotStore.com</a>, and we're planning to have 5 to 6 times more robotics products available by this summer! Our mission will not change... we will search the world and bring to you the best in robotics parts, kits and service. The site is expanding fast, so be sure to visit us frequently.



<u>www.RobotStore.com</u> 1<del>-8</del>00-374-5764

### **Special Offer - Save 10%**

Phone in your first order before May 15, 2005 and receive a 10% discount. Be sure to mention VIP Number JRD.



Late Additions ......265

# Check Out These Money Saving Sample Price Comparisons\*

Take a look through this sampling of recent price differences among our competitors, and calculate the substantial savings!

Pricing will fluctuate, so please be sure and double-check when making purchases. But always remember, with Jameco you'll always get the lowest price!

Product Description	Jameco® Part No.	Jameco Page #	Jameco* Price	Digi-Key® Corp.	Mouser <sup>®</sup> Electronics	Newark InOne®	Min Savings	imum Discount
74ACT138 IC, DIP Pkg	212038CH	19	\$0.23	\$0.55	\$0.61	\$0.39	\$0.16	41.0%
Cable, RG58/U, 10', BNC-BNC, $50\Omega$	180822CH	117	\$4.49	\$12.54	_	\$16.30	\$8.05	64.2%
Capacitor, Electrolytic, 470uF, 50VDC, 20%	93825CH	65	\$0.29	\$0.52	\$0.44	\$0.436	\$0.15	33.5%
Capacitor, Mica, 1nF, 100V, 5%	16011CH	67	\$1.19	\$3.16	\$1.85	\$2.52	\$0.66	35.7%
Connector, BNC, Amphenol 31-2221, Rec.	223538CH	115	\$2.89	\$4.18	\$3.90	\$4.18	\$1.01	25.9%
Connector, Centronics, 36-pin Female	159708CH	113	\$0.53	\$4.38	\$2.61	_	\$2.08	79.7%
Connector, D-Sub, 25-pin Male, Metal	15149CH	101	\$0.79	\$2.78	\$2.40	_	\$1.61	67.1%
Fan, 54CFM, 3.63" sq. x 1", 12VDC	319193CH	147	\$7.95	\$31.14	\$30.98	\$27.46	\$19.51	71.0%
LED, White, High-output, 5,500 mcd, T1-3/4	320531CH	58	\$1.09	\$3.00	\$3.02	\$6.64	\$1.91	63.7%
LM317LM IC, SOIC Pkg	193551CH	36	\$0.35	\$0.54	\$0.43	\$0.689	\$0.08	18.6%
Power Supply, Open Frame, 120W, 4 out	196701CH	155	\$28.95	\$245.75	\$76.80	_	\$47.85	62.3%
Power Supply, Table-top, 25W, 2 out	221751CH	169	\$27.95	\$118.00	\$41.14	_	\$13.19	32.1%
RCA Jack, Panel Mount, Right Angle, Yellow	220564CH	98	\$0.45	\$0.61	\$0.53	\$0.735	\$0.08	15.1%
Relay, 4PDT, 5A, 12VDC	291506CH	139	\$4.45	\$6.91	\$6.86	\$8.74	\$2.41	35.1%
Slide Switch, SPDT, 2A @ 28VDC	204142CH	131	\$0.28	\$1.83	\$1.45	\$1.40	\$1.12	80.0%
SN74F138D IC, SOIC Pkg	283186CH	25	\$0.34	\$0.56	_	\$0.441	\$0.10	22.9%
Terminal Block, 12 Position, 12mm	215036CH	119	\$2.59	\$12.45	_	\$6.60	\$4.01	60.8%
Toroid, 150uH, Vertical	208320CH	78	\$4.35	\$6.24	\$8.92	\$6.81	\$1.89	30.3%
Wire, 18awg, Stranded, Black, UL1007	125786CH	89	\$5.79	\$26.89	\$12.65	\$20.61	\$6.86	54.2%

<sup>\*</sup> This chart is a snapshot of single-unit prices taken from each party's website on March 17, 2005. Prices shown do not reflect added shipping & handling charges or any available discounts.

# Find a Lower Price? We'll Match It, And Then Pay You Another 10%!

Here's a deal

to beat all deals: if you ever find a print-advertised price that's lower than an identical item in our catalog, we'll not only match the lower price, we'll beat it by an additional 10%, right down to our cost! No fine print, no questions asked.

At Jameco Electronics, we bring our customers the best products at the absolute lowest prices. And we don't just say it, we guarantee it!

From the president's office to the shipping line,

we all share a dedication to high quality and great value, and that translates into real, meaningful savings for you on every item we carry. Our buyers

work tirelessly to bring you prices that

are consistently 10% to 20% lower than market prices. And when we score a special deal with our suppliers, we're thrilled to pass even deeper discounts on to you.

The result? Everyone saves, and saves big with Jameco.
Guaranteed!

Edito / idantions	
ICs & Semiconductors	
Optos & Illumination	
Passives	
Wire & Cable	
Interconnects	
Electromechanical	
Fans & Cooling	
<b>Power Supplies &amp; Wall Adapters150-182</b> Switching Power Supplies, Wall Adapters, etc.	
Batteries	
LCD Products	
Cards, Storage, Memory, Motherboards, Networking, etc.	
Security	
Test & Measurement, Tools, Soldering Equipment, etc.	
Electronic Design	
Educational & Hobbyist250-257 Robotics, Solar, Educational Kits, Books, etc.	

PRICES

Order Info, Order Form,

Prices are effective 4-11-05. Prices and discounts are subject to change without notice.

Product & Manufacturer Indices 258-264



# EXCLUSIVE

### **Rabbit Semiconductor and Jameco**

World-renowned Rabbit Semiconductor™ joins forces with Jameco to provide you with revolutionary products to optimize your designs!

Rabbit specializes in high-performance 8-bit microprocessors and development tools for embedded control, communications, and Ethernet connectivity; and their award-winning solutions are second-to-none in performance and innovation.

Combining ground-breaking design and

no-nonsense implementation,

their components and modules make a perfect fit for a wide variety of applications, from automated meter-reading devices, to biodefense systems, to retailsupport devices.

Look no further for a trusted source of these great products! Proven performance from Rabbit Semiconductor and unbeatable service, support, and savings from Jameco add up to a winning combination!

For Rabbit Semiconductor, see pages 13-15.

### **Microchip DSCs: High-Performance** at Low Jameco Prices!



Microchip's dsPIC® powerful, versatile

MICROCHIP

digital dynamos that can add a new level of performance and value to your designs! In a single unit, these 16-bit modified Harvard RISC machines

combine the control advantages of a high-performance

16-bit microcontroller with the high

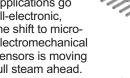
computation speed of a fully implemented digital signal processor. All **DSCs** integrate Flash program memory and

most have EEPROM data storage. The result is a tightly coupled, single-chip. single-instruction-stream solution for a wide range of embedded systems applications!

See Microchip dsPIC on page 12.

### **More Top-of-the-Line Pressure Sensors** To Reduce Pressure on the Bottom Line

As designs in consumer products and automotive applications go all-electronic. the shift to microelectromechanical sensors is moving full steam ahead.



For air movement control, level indicators, leak detection, robotics, and industrial control. Freescale has set the standards.

And as always. Jameco delivers the value with new selections in top-quality Freescale pressure sensors!

You'll find even more of the most popular. most-requested pressure ranges and packages in the world-renowned Freescale line, right here in these pages. and our expansion of this category will continue in the future.

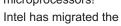
What your designs demand, Jameco delivers!



See page 43 for Freescale Pressure Sensors.

### **Choose Intel Embedded CPUs at Great Values!**

Check out our line-up of industry-leading, embedded CPUs from the gold standard of microprocessors!



proven architecture of a range of their mostwanted chips to their embedded product roadmap. These long-

life-cycle powerhouses are perfect for your embedded designs and for motherboards with legacy design

features. Choose your specs: clock-rate, onboard cache, FSB speed and layout: and then choose the Intel embedded processor you need, at the low Jameco price you want!



See page 193 for Intel's Embedded Processors

### **E-Labs ICs: More of What You Asked For!**

Our customers have spoken, and we've responded with more outstanding E-Lab driver ICs!



This catalog includes more of the mostneeded E-Lab chips, including output

controllers, decoder/drivers, LCD interfaces and motor controllers.

E-Lab is known for quality and performance. and Jameco delivers these super products with industry-



leading service and support at great, quaranteed low-prices!

E-Lab products are on page 33.

### **Need Reliable. Professional-Grade Table-Top Power? Think Jameco!**



Juice-up your designs with reliable, costeffective table-top power from these value-priced, rock-solid units. Manufactured to exacting tolerances, these UL/CUL/TUV/CB/CE-approved modules



are directly equivalent to comparable table-top power supplies from other major power supply manufacturers.

For Table-top Power Supplies, see pages 168-172.

### **Contact Information**

Order Desk 24/7, 365 Days a Year

Phone: 1-800-831-4242 Fax: 1-800-237-6948 E-mail: sales@Jameco.com

Website www.Jameco.com International Order Desk

Phone: 650-592-8097 Fax: 650-592-2503

E-mail: international@Jameco.com

**Technical Support** Phone: 1-800-831-4242 E-mail: tech@Jameco.com

**Customer Service** Phone: 1-800-831-4242 E-mail: custservice@Jameco.com

**Credit Department** Phone: 650-592-8097 E-mail: credit@Jameco.com

**International Toll-Free Fax** 

Columbia: 980-9-136748 Mexico: 001-800-593-1449 Indonesia: 1-803-015-237-6948 **Brazil**: 000-817-455-6119 New Zealand: 080-044-0470

# **Mean Well Power Supplies: The Next Generation - Smaller, More Reliable,**

Rock solid, reliable and robust power supplies that deliver top performance in demanding applications: that's the new G3 Series from Mean Well!

The G3 series is Mean Well's 3rd generation of enclosed switching power supplies, optimized to meet the growing demand of your

compact, size-restrictive applications. Design innovations allow them to pack high-efficiency and top performance into miniature-size units. They're small, but they're tough! These power supplies are rated for high temperatures up to 70°C,

and all use a 105°C input electrolytic capacitor that safeguards operation over a long lifetime of reliable operation.

The G3's are built to last! Each unit receives a full burn-in test under full rated power, and is equipped with short-circuit/

overload/over-voltage protection. Their universal AC input (88-264VAC @ 47-63Hz) can handle a 300VAC input surge for a full 5 seconds. In short, you can count on the G3 series in all kinds of environments, from unstable AC sources

to high-humidity installations. All carry a

3-year warranty, and boast a MTBF rating of almost 310,000 hours.

We offer Mean Well supplies from 35W



to 150W, and all comply with the EN61000-6-2 heavy-industry EMS level. Whether you're

designing for general electronic applications, moving signs, factory automation, communication apps, electro-mechanical devices or security systems, you can trust Jameco and Mean Well to deliver the power to perform!

Meanwell G3 series enclosed power supplies are on pages 156-160.

**Less Expensive!** 

### **Heat Dissipation** That Won't "Sink" **Your Budget!**

Take the heat away from your sensitive components as you take the heat off your bottom line!



ValuePro heat sinks are drop-in equivalents for the most-used models on the market. Simply use our convenient cross-reference to match your

needs against equivalent Thermalloy and other leading manufacturers. Ready to perform with TO-type pack-

ages (for linear and transistor ICs), these heat-sinks are available in many different types and configurations. They're tops in heat-dissipation, and because they're from Jameco, rest assured that they're also unbeatable in price!

See page 46 for Heat Sinks.

### **Quality Power Cords, Overpowering** Values!



Top-quality, high-performance power cords are only a toll-free phone call away!

Jameco ValuePro

cords are selected to provide the trusted power you need at a substantial savings over other products. All are Volex® equivalent and they're available in the most popular, most-needed



configurations and materials. When you think power cords. think Jameco ValuePro and plug-in to the savings now!

For expanded line of Power Cords, see page 180-181.





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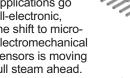
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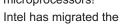
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**Customer Service** Phone: 1-800-831-4242 E-mail: custservice@Jameco.com

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For expanded line of Power Cords, see page 180-181.



**IC** Index

## **Great Optoisolators, Great Prices. Greater Selection!**



Thumb through this catalog's new Optoisolator section and you'll see an updated, broad

selection organized in a new, easy-to-find layout. You asked for more choices, and



we've delivered! We have more than doubled the number of optoisolators in our catalog to cover all your high-voltage isolation

requirements. These new additions are in the most popular opto categories/series, including 4Nxx, 6Nxx, CNY17xx, H11xx, MCTxx, MOCxx, and

PS25xx! We have also doubled the number of our slotted optical switches in the popular H11xx and H22xx series.



For ValuePro Optoisolators, see page 54.

### Trust Intel® **Architecture-Based** Motherboards, with **On-Board Jameco** Value!



Designers of embedded systems face many demands, but two stand out: you need to choose trusted components that meet service and support objectives, and you need to control costs. When you choose Intel architecture, vou'll get a board with the features and reliability that you need at a cost you can afford. And when you choose Jameco, you'll get the best price, service, and in-stock availability to keep your designs running well ahead of the competition!

For expanded motherboard selection, see page 192.

### **Glow For It! Choose Jameco For All Your LED Needs!**

Your eyes will light up when you see our new, expanded selection of high-

quality, high-performance ValuePro LEDs!

We've doubled our selection in this catalog, offering 100% greater range of standard, medium, and high output LEDs. But that's not all! We've also added surface mount, 5mm blinking, and

100mm packages to our line of LEDs. And as always, you can rely on Jameco

> for unbeatable prices and trusted, in-stock inventory. For all your LED needs, ValuePro is first in performance, first in service, and first in low-cost. high-quality components!

We've also added more than 40 new 7-segment displays to our ValuePro offering. See pgs 59-60.



### **This Expanded Selection Will** "Resonate" With You!

For ValuePro LEDs, see pages 55-61.

In this catalog, we've more than tripled our selection of top-quality oscillators and crystals! In addition, you'll find a wider, hand-picked section of ceramic resonators to perfectly complement the other Jameco components in your designs.

Every day, our buyers search the world's most respected manufacturers to bring our customers the



very best, most needed components in this high-demand product category. We're continually expanding our offerings, so whether you need tuning forks, monolithic filters, crystals (in a variety of packages, including surface-mount) or oscillators, Jameco is working to be your one-stop. top-value source!

See pages 80-82 for Crystals, Oscillators and Resonators.

## More ValuePro Capacitors, More Choices, **More Savings!**



Take "charge" of your bottom-line with Jameco's expanding line of quality ValuePro capacitors!

In every catalog we're expanding the selection of capacitors in our ValuePro line, adding the components our customers need to optimize their designs for quality and cost-efficiency. This time we've added even more than before, with



popular caps in more values, styles and sizes. Non-polarized, electrolytic radial and electrolytic axial, monolithic ceramic; name the application, and chances are we've got a ValuePro capacitor to fill the bill!

For ValuePro Capacitors, see pages 64-70.

### **Make the ValuePro Connection!**

**EXCLUSIVE** 

JAMECO"

Connectors have a simple role in many designs, but their flawless functioning is vital. You need to trust their

durability, their fit, their feel and their integrity. And for great connectors, you know you can always trust in Jameco!

Our new ValuePro connectors meet our high standards for quality! Designed as value-equivalents to industry-leading

AMP connectors. these sets are perfect matches in form and function to the best known connectors on the market today. And as our line continues to expand, we'll carry even more of the most popular sizes and configurations to help you make all your critical connections!

See page 104-105 for ValuePro Connectors.

## Rack 'em Up with APW for Quality, **Efficiency and Economy!**

Organize, simplify and optimize your rack-mounted components with these innovative solutions from APW!

If speed is what you need, choose Pioneer Pre-Configured Rackmount Enclosures. These quick-todeploy Pioneer Datacom Kits deliver pre-configured enclosures with one easy-toorder item number. Choose from four different kit combos, all with certified APW durability, compatibility and ease-of-access.

Wall-mount rack system, 48" tall. For unparalleled all-in-one convenience, you can't beat Pioneer Quicksilver Rackmount Enclosure Kits. Fully loaded and ready to plug and play, Quicksilver is available in three heights (25U, 40U and 45U). Everything is

there, right where you need it, right out

Space problems? No problem! Mini-Max Wall Mount Enclosures are the ideal

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These heavy-duty, low-cost frames offer secure rack-mount storage at a fraction of the cost of a fully enclosed cabinet.

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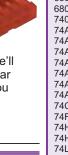
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For APW Rack Mount Products, see pages 190-191 and 265.

### **Surface Mount Electromechanical Buzzers**

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Part	Manufacture	Operating Volt.	Volt. Range	Freq.	Sound		Pricing			
Number	Cross Ref. No.	(Vp-p/mA)	(Vp-p)	(Hz)	(dB)	Dimensions (mm)	1	10	100	1000
335388CH	AST500	1.5	1.2 - 3	2400	85	12.8 sq. x 10 H	\$2.95	\$2.85	\$2.72	\$2.48
335417CH	AST605	5/40	4 - 8	2400	87	12.6 sq. x 7 H	2.29	2.28	2.27	2.16
335345CH	ASI301	5/30	4 - 7	2400	90	12.6 sq. x 10 H	2.99	2.78	2.59	2.24
335353CH	ASI401	12/30	8 - 15	2400	90	12.6 sq. x 10 H	1.79	1.75	1.63	1.49
335370CH	AST200	3/80	2 - 5	2731	85	8.7 sq. x 4.2 H	3.65	3.30	3.00	2.70
335441CH	AST800	3	2 - 4.5	3200	87	11 W x 14 D x 3.5 H	5.65	5.49	5.20	4.74



	_
Product Line 4000-CMOS Logic (DIP/SOIC)	Page :
4000-CMOS Logic (DIP/SOIC)	29, 3
5000 Series Processors	3
6500 Series Commodore Processors	
6800/68000 Series Processors	o, i
74ABT-BICMOS Logic (DIP/SOIC)	30, 3 2
74AC-CMOS Logic (DIP/SOIC)	17 1
74ACT-CMOS Logic (DIP/SOIC)	18. 1
74AHC-CMOS Logic (DIP/SOIC)	2
74AHC-CMOS Logic (DIP/SOIC)74AHCT-CMOS Logic (DIP/SOIC)	20, 2
74ALS-TTL (DIP/SOIC)74ALVC-L.V. CMOS Logic (SOIC/TSSOP)	2
74ALVC-L.V. CMOS Logic (SOIC/TSSOP)	2
74C-TTL, CMOS (DIP)	30, 3
74F-TTL (DIP/SOIC)74HC-CMOS Logic (DIP/SOIC)	25, 2
74HC-CMOS Logic (DIP/SOIC)74HCT-CMOS Logic (DIP/SOIC)	22, 2
74LS-TTL (DIP/SOIC)	26-2
74LVC-L.V. CMOS Logic (SOIC/TSSOP)	2-022
74S-TTL (DIP)	3
8000 Series Intel-Compatible	
87C/9C Microcontrollers	4
9000 Series	3
A/D & D/A Converters3	
Anachip/ICT PLDs	1
Analog, NTE	4
Atmel Microcontrollers	
AudioBASIC STAMP/Accessories	3 16 25
Buffers	
Clock Chips & Modules	
Comparators	
Converters3	
CPUs/MPUs	
Dallas Semiconductors	3
Decoder/Encoder Chips	
Digital Signal Converters	
Embedded Processors	19
EPROMs and EEPROMs	
GALs	1
IC Assortments29-31, 37, 45	47 24
Interface Series	33, 3
Linear Series	41, 4
Logic Circuits, NTE	4
Maxim-Type Interface	
Memory, DDR/DIMM/SIMM	
Microchip Microcontrollers	10-1
Microcontrollers	10-16, 4
MPU SupervisoryNTE Replacement Semiconductors	3 49 <b>-</b> 5
Op Amps	
OTP/PROM	
PALs and GALs	1
PEEL™ (PLD)	1
Pentium Processor Chips	19
PIC Microcontrollers	
Power Management	
Pressure Sensors	
Prototyping Development Tools	230, 24
Rabbit Development Kits	۱۱-۱۱ 7
RS-232 Drivers/Receivers	
RS-422/485 Receivers	
Servo & Stepper Motor Controller	3
ST Flash Memory	
ST7 Micro Micontrollers	
Stepper Motor Drivers/Controllers	
Temperature Sensors	
Test Clips	
TI Microcontrollers	
Voice Chips	
Voice Chips	2 49-5
Z8 OTP Microcontrollers	_, ,, ,,
Z80 Series	
Zilog Flash Microcontrollers	

**IC** Index

## **Great Optoisolators, Great Prices. Greater Selection!**



Thumb through this catalog's new Optoisolator section and you'll see an updated, broad

selection organized in a new, easy-to-find layout. You asked for more choices, and



we've delivered! We have more than doubled the number of optoisolators in our catalog to cover all your high-voltage isolation

requirements. These new additions are in the most popular opto categories/series, including 4Nxx, 6Nxx, CNY17xx, H11xx, MCTxx, MOCxx, and

PS25xx! We have also doubled the number of our slotted optical switches in the popular H11xx and H22xx series.



For ValuePro Optoisolators, see page 54.

### Trust Intel® **Architecture-Based** Motherboards, with **On-Board Jameco** Value!



Designers of embedded systems face many demands, but two stand out: you need to choose trusted components that meet service and support objectives, and you need to control costs. When you choose Intel architecture, vou'll get a board with the features and reliability that you need at a cost you can afford. And when you choose Jameco, you'll get the best price, service, and in-stock availability to keep your designs running well ahead of the competition!

For expanded motherboard selection, see page 192.

### **Glow For It! Choose Jameco For All Your LED Needs!**

Your eyes will light up when you see our new, expanded selection of high-

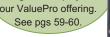
quality, high-performance ValuePro LEDs!

We've doubled our selection in this catalog, offering 100% greater range of standard, medium, and high output LEDs. But that's not all! We've also added surface mount, 5mm blinking, and

100mm packages to our line of LEDs. And as always, you can rely on Jameco

> for unbeatable prices and trusted, in-stock inventory. For all your LED needs, ValuePro is first in performance, first in service, and first in low-cost. high-quality components!

We've also added more than 40 new 7-segment displays to our ValuePro offering. See pgs 59-60.



### **This Expanded Selection Will** "Resonate" With You!

For ValuePro LEDs, see pages 55-61.

In this catalog, we've more than tripled our selection of top-quality oscillators and crystals! In addition, you'll find a wider, hand-picked section of ceramic resonators to perfectly complement the other Jameco components in your designs.

Every day, our buyers search the world's most respected manufacturers to bring our customers the



very best, most needed components in this high-demand product category. We're continually expanding our offerings, so whether you need tuning forks, monolithic filters, crystals (in a variety of packages, including surface-mount) or oscillators, Jameco is working to be your one-stop. top-value source!

See pages 80-82 for Crystals, Oscillators and Resonators.

## More ValuePro Capacitors, More Choices, **More Savings!**



Take "charge" of your bottom-line with Jameco's expanding line of quality ValuePro capacitors!

In every catalog we're expanding the selection of capacitors in our ValuePro line, adding the components our customers need to optimize their designs for quality and cost-efficiency. This time we've added even more than before, with



popular caps in more values, styles and sizes. Non-polarized, electrolytic radial and electrolytic axial, monolithic ceramic; name the application, and chances are we've got a ValuePro capacitor to fill the bill!

For ValuePro Capacitors, see pages 64-70.

### **Make the ValuePro Connection!**

**EXCLUSIVE** 

JAMECO"

Connectors have a simple role in many designs, but their flawless functioning is vital. You need to trust their

durability, their fit, their feel and their integrity. And for great connectors, you know you can always trust in Jameco!

Our new ValuePro connectors meet our high standards for quality! Designed as value-equivalents to industry-leading

AMP connectors. these sets are perfect matches in form and function to the best known connectors on the market today. And as our line continues to expand, we'll carry even more of the most popular sizes and configurations to help you make all your critical connections!

See page 104-105 for ValuePro Connectors.

## Rack 'em Up with APW for Quality, **Efficiency and Economy!**

Organize, simplify and optimize your rack-mounted components with these innovative solutions from APW!

If speed is what you need, choose Pioneer Pre-Configured Rackmount Enclosures. These quick-todeploy Pioneer Datacom Kits deliver pre-configured enclosures with one easy-toorder item number. Choose from four different kit combos, all with certified APW durability, compatibility and ease-of-access.

Wall-mount rack system, 48" tall. For unparalleled all-in-one convenience, you can't beat Pioneer Quicksilver Rackmount Enclosure Kits. Fully loaded and ready to plug and play, Quicksilver is available in three heights (25U, 40U and 45U). Everything is

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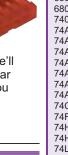
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	_
Product Line 4000-CMOS Logic (DIP/SOIC)	Page :
4000-CMOS Logic (DIP/SOIC)	29, 3
5000 Series Processors	3
6500 Series Commodore Processors	
6800/68000 Series Processors	o, i
74ABT-BICMOS Logic (DIP/SOIC)	30, 3 2
74AC-CMOS Logic (DIP/SOIC)	17 1
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74AHC-CMOS Logic (DIP/SOIC)	2
74AHC-CMOS Logic (DIP/SOIC)74AHCT-CMOS Logic (DIP/SOIC)	20, 2
74ALS-TTL (DIP/SOIC)74ALVC-L.V. CMOS Logic (SOIC/TSSOP)	2
74ALVC-L.V. CMOS Logic (SOIC/TSSOP)	2
74C-TTL, CMOS (DIP)	30, 3
74F-TTL (DIP/SOIC)74HC-CMOS Logic (DIP/SOIC)	25, 2
74HC-CMOS Logic (DIP/SOIC)74HCT-CMOS Logic (DIP/SOIC)	22, 2
74LS-TTL (DIP/SOIC)	26-2
74LVC-L.V. CMOS Logic (SOIC/TSSOP)	2-022
74S-TTL (DIP)	3
8000 Series Intel-Compatible	
87C/9C Microcontrollers	4
9000 Series	3
A/D & D/A Converters3	
Anachip/ICT PLDs	1
Analog, NTE	4
Atmel Microcontrollers	
AudioBASIC STAMP/Accessories	3 16 25
Buffers	
Clock Chips & Modules	
Comparators	
Converters3	
CPUs/MPUs	
Dallas Semiconductors	3
Decoder/Encoder Chips	
Digital Signal Converters	
Embedded Processors	19
EPROMs and EEPROMs	
GALs	1
IC Assortments29-31, 37, 45	47 24
Interface Series	33, 3
Linear Series	41, 4
Logic Circuits, NTE	4
Maxim-Type Interface	
Memory, DDR/DIMM/SIMM	
Microchip Microcontrollers	10-1
Microcontrollers	10-16, 4
MPU SupervisoryNTE Replacement Semiconductors	3 49 <b>-</b> 5
Op Amps	
OTP/PROM	
PALs and GALs	1
PEEL™ (PLD)	1
Pentium Processor Chips	19
PIC Microcontrollers	
Power Management	
Pressure Sensors	
Prototyping Development Tools	230, 24
Rabbit Development Kits	۱۱-۱۱ 7
RS-232 Drivers/Receivers	
RS-422/485 Receivers	
Servo & Stepper Motor Controller	3
ST Flash Memory	
ST7 Micro Micontrollers	
Stepper Motor Drivers/Controllers	
Temperature Sensors	
Test Clips	
TI Microcontrollers	
Voice Chips	
Voice Chips	2 49-5
Z8 OTP Microcontrollers	_, ,, ,,
Z80 Series	
Zilog Flash Microcontrollers	

EPRO					D	IP ''	77111
Part No.	Cross Ref.	Pkg.	Description		1	10	100
39909CH	2708 <b>.</b>	DIP-24	1k x 8	450ns (±5V, +12V)		\$4.29	\$3.19
33611CH	TMS2716 <b></b>	DIP-24	2k x 8	450ns (±5V, +12V)		1.99	1.79
40002CH	2716	DIP-24	2k x 8	450ns (25V)		3.69	3.29
39706CH	27C16.	DIP-24	2k x 8	450ns (25V) CMOS		5.99	4.99
308662CH		DIP-24	2k x 8	200ns (21V)		6.09	5.59
40011CH	2716-14	DIP-24	2k x 8	350ns (25V)		5.89	5.39
	27C16-200	DIP-24	2k x 8	200ns UVPROM (5V)		3.59	2.99
	27C16-150	DIP-24	2k x 8	150ns UVPROM (5V)		5.49	4.69
40096CH	27324	DIP-24	4k x 8	450ns (25V)		5.49	4.19
39765CH	27C32 <b>.</b>	DIP-24	4k x 8	450ns (25V) CMOS		4.19	2.89
40133CH 33591CH	2732A-45 <b>♦</b> TMS2532A <b>♦</b>	DIP-24	4k x 8 4k x 8	450ns (21V) 450ns (21V)		3.69	3.29
114876CH		DIP-24 DIP-24	4k x 8	, ,		3.59 3.79	3.19
40125CH	2732A-25 <b></b>	DIP-24	4k x 8	450ns (12.5V) 250ns (21V)			3.99
40125CH 40109CH	2732A-20 <b>4</b>		4k x 8			4.49	
	27C32-200	DIP-24 DIP-24	4k x 8	200ns (21V) 200ns UVPROM (5V)		5.99 4.99	3.99
	27C32-200 27C32-150	DIP-24	4k x 8	150ns UVPROM (5V)		5.99	4.99
40205CH		DIP-28					
40205CH 40248CH	2764-25 <b>♦</b> 2764A-25 <b>♦</b>	DIP-28	8k x 8 8k x 8	250ns (21V) 250ns (12.5V)		4.79 3.69	3.09
39845CH	27C64-25	DIP-28	8k x 8	250ns (12.5V) CMOS		4.09	3.79
40192CH	2764-20 <b></b>	DIP-28	8k x 8	200ns (21V)		4.09	4.29
40192CH 40230CH	2764A-20	DIP-28	8k x 8	200ns (12.5V)		4.79	3.69
74608CH	27C64-20	DIP-28	8k x 8	200ns (12.5V) CMOS		4.09	3.79
39829CH	27C64-20	DIP-28	8k x 8	150ns (12.5V) CMOS		3.49	2.99
	27C64-13	DIP-28	8k x 8	120ns (12.5V) CMOS		5.99	5.49
	27C64-12 <b>3</b>	DIP-28	8k x 8	100ns UVPROM (5V)		3.59	2.69
266044CH		DIP-28	8k x 8	70ns UVPROM (5V)		5.19	4.39
	CY7C264-55WC		8k x 8	55ns UVPROM (5V)		5.99	5.49
39933CH	27128-25 <b></b>	DIP-28	16k x 8	250ns (21V)		3.99	3.49
39984CH	27128A-25 <b>♦</b>	DIP-28	16k x 8	250ns (12.5V)		4.09	3.69
39685CH	27C128-25	DIP-28	16k x 8	250ns (12.5V) CMOS		3.59	3.29
39968CH	27128A-20	DIP-28	16k x 8	200ns (12.5V)		4.19	3.79
	27C128-20	DIP-28	16k x 8	200ns (12.5V) CMOS		3.95	3.56
39950CH	27128A-15 <b>♦</b>	DIP-28	16k x 8	150ns (12.5V)		3.99	3.59
39677CH	27C128-15	DIP-28	16k x 8	150ns (12.5V) CMOS		3.89	3.49
87935CH	27C128-124	DIP-28	16k x 8	120ns (12.5V) CMOS		4.09	3.69
	27C128-100	DIP-28	16k x 8	100ns (12Vpp)		4.29	3.89
	27C128-70	DIP-28	16k x 8	70ns (12.5V)		4.29	3.89
40061CH	27256-254	DIP-28	32k x 8	250ns (12V)		2.99	2.69
39731CH	27C256-25�	DIP-28	32k x 8	250ns (12.5V) CMOS		2.99	2.69
40045CH	27256-20��		32k x 8	200ns (12.5V)		3.29	2.99
39722CH	27C256-20 <b></b>	DIP-28	32k x 8	200ns (12.5V) CMOS		2.49	2.19
40037CH	27256-154	DIP-28	32k x 8	150ns (12.5V)		3.09	2.79
39714CH	27C256-15 <b>♦</b>	DIP-28	32k x 8	150ns (12.5V) CMOS		1.79	1.59
65904CH	27C256-13 <b>♦</b>	DIP-28	32k x 8	120ns (12.5V) CMOS		1.99	1.79
	27C256-10 <b></b>	DIP-28	32k x 8	100ns (12.5V) CMOS		3.09	2.59
	27C256-70 <b></b>	DIP-28	32k x 8	70ns (12.5V) CMOS		3.19	2.9
	27C256-55	DIP-28	32k x 8	55ns UVPROM (5V)		4.79	4.29
40168CH	27512-25 <b></b>	DIP-28	64k x 8	250ns (12.5V)		3.39	3.09
39802CH	27C512-25�	DIP-28	64k x 8	250ns (12.5V) CMOS		4.39	3.9
40150CH	27512-20 <b></b>	DIP-28	64k x 8	200ns (12.5V)		2.39	2.19
39790CH	27C512-20�	DIP-28	64k x 8	200ns (12.5V) CMOS		2.89	2.59
39781CH	27C512-20 <b>\$</b>	DIP-28	64k x 8	150ns (12.5V) CMOS		1.99	1.79
39773CH	27C512-15 <b>*</b> 27C512-12 <b>*</b>	DIP-28	64k x 8	120ns (12.5V) CMOS		1.59	1.49
	27C512-12&	DIP-28	64k x 8	100ns (12.5V) CMOS		2.99	2.4
	27C512-10\$\display	DIP-28	64k x 8	90ns (12.5V) CMOS		2.59	2.39
	27C512-90 <b>*</b> 27C512-70	DIP-28	64k x 8	70ns (12.5V) CMOS		2.39	2.19
	27C512-70 27C512-55	DIP-28	64k x 8	55ns (12Vpp)		3.39	3.19
	27C512-55 27C512-45	DIP-28	64k x 8	45ns (12.5V) CMOS			
	27C512-45 27C1024-15			150ns (12.5V) CMOS		3.79 4.79	3.49
		DIP-40					4.39
	27C1024-12	DIP-40		120ns (12.5V) CMOS		4.79	4.39
	27C1024-80	DIP-40		80ns (12.5V) CMOS		4.79	4.39
39669CH	27C010-20 <b></b>		128k x 8	200ns (12.5V) CMOS		2.29	1.99
39651CH	27C010-15�		128k x 8	150ns (12.5V) CMOS		1.99	1.7
74624CH	27C010-12 <b></b>		128k x 8	120ns (12.5V) CMOS		1.99	1.79
79231CH	27C010-10�	DIP-32	128k x 8	100ns (12.5V) CMOS	2.39	1.99	1.75

EPR0	M (Continu	ued)			ı	DIP 🦷	m
Part No.	Cross Ref.	Pkg.	Description	ı	1	10	100
137699CH	27C010-80�	DIP-32	128k x 8	80ns (12.5V) CMOS	\$3.99	\$3.59	\$2.99
146149CH	27C010-70�	DIP-32	128k x 8	70ns (12.5V) CMOS	2.49	2.29	2.09
266095CH	27C010-55	DIP-32	128k x 8	55ns (12Vpp)	5.29	4.89	4.49
137701CH	27C010-45�	DIP-32	128k x 8	45ns (12.5V) CMOS	3.99	3.19	2.89
65681CH	27C020-20�	DIP-32	256k x 8	200ns (12.5V) CMOS	4.99	4.59	3.99
65699CH	27C020-15�	DIP-32	256k x 8	150ns (12.5V) CMOS	5.29	4.99	4.49
78852CH	27C020-12�	DIP-32	256k x 8	120ns (12.5V) CMOS	5.29	4.89	4.49
156267CH	27C020-10	DIP-32	256k x 8	100ns (12.5V) CMOS	4.09	3.89	3.49
203650CH	27C020-80	DIP-32	256k x 8	80ns (12.5V) CMOS	4.39	3.99	3.89
266108CH	27C020-70	DIP-32	256k x 8	70ns UVPROM (5V)	4.89	4.49	3.39
266116CH	27C020-55	DIP-32	256k x 8	55ns UVPROM (5V)	6.89	6.55	6.21
127933CH	27C4096-12	DIP-40	256k x 16	120ns (12.5V) CMOS	9.29	8.69	7.89
85462CH	27C040-15�	DIP-32	512k x 8	150ns (12.5V) CMOS	6.59	6.09	5.59
102293CH	27C040-124	DIP-32	512k x 8	120ns (12.5V) CMOS	6.59	6.09	5.59
111780CH	27C040-10�	DIP-32	512k x 8	100ns (12.5V) CMOS	7.09	6.49	5.89
203676CH	27C040-80	DIP-32	512k x 8	80ns (12.5V) CMOS	7.39	6.79	5.01
266124CH	27C040-70	DIP-32	512k x 8	70ns UVPROM (5V)	6.05	5.19	5.15
266132CH	27C040-55	DIP-32	512k x 8	55ns UVPROM (5V)	9.49	8.59	7.59
203668CH	27C040-45	DIP-32	512k x 8	45ns (12.5V) CMOS	9.99	9.09	8.09
140003CH	27C080-124	DIP-32	1M x 8	120ns (12.5V) CMOS	12.59	11.59	10.59
265842CH	27C800-12	DIP-42	1M x 8	120ns UVPROM (5V)	12.59	11.59	10.59
156275CH	27C080-10�	DIP-32	1M x 8	100ns (12.5V) CMOS	12.99	11.99	10.99
203684CH	27C080-90	DIP-32	1M x 8	90ns (12.5V) CMOS	12.99	11.99	10.99
156283CH	27C160-10	DIP-42	2M x 8	100ns (12.5V) CMOS	19.99	18.99	17.99
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### **EPROM Accessories**

Part No.	Cross Ref.	Description 1	5
13864CH	CF2	Conductive foam (12" x 24" x .25") hard black	\$8.35
66042CH	DE1	UVP portable EPROM eraser, pg 249 54.95	49.95
15712CH	DE4	8-chip UV-EPROM eraser, pg 249	109.95

See EPROM programmers and erasers on pages 248 & 249

EEPRO	MC			DIP WYTT	SOIC V	PROPERTY OF
Part No.	Cross Ref.	Pkg.	Descriptio	n	1 10	100
276584CH	24C00	SOIC-8	16 x 8	Serial\$.33	2 \$.31	\$.29
276568CH	24C00	DIP-8	16 x 8	Serial20	6 .25	.23
200627CH	24C44	DIP-8	16 x 16	Serial CMOS 1.9	9 1.79	1.61
276955CH	93C46	SOIC-8	64 x 16	3-wire serial3	7 .34	.29
102058CH	93C46	DIP-8	64 x 16	Serial (5V)3	5 .30	.22
276621CH	24C01	SOIC-8	128 x 8	2-wire serial2	9 .27	.20
276592CH	24C01	DIP-8	128 x 8	2-wire serial	6 .29	.25
276971CH	93C56	SOIC-8	128 x 16	3-wire serial5	4 .50	.41
108855CH	93C56	DIP-8	128 x 16	Serial (5V)6	9 .54	.39
276630CH	24C02	SOIC-8	256 x 8	2-wire serial3	7 .36	.27
108839CH	24C02P	DIP-8	256 x 8	Serial CMOS4	7 .40	.30
276980CH	93C66	SOIC-8	256 x 16	3-wire serial3	7 .36	.32
200598CH	93C66	DIP-8	256 x 16	Serial (5V)6	9 .62	.55
276648CH	24C04	SOIC-8	512 x 8	2-wire serial3	4 .27	.24
108847CH	24C04P	DIP-8	512 x 8	Serial CMOS8	9 .79	.69
276664CH	24C08	SOIC-8	1k x 8	2-wire serial3		.29
200547CH	24C08-10	DIP-8	1k x 8	Serial CMOS	5 .71	.59
277018CH	93C86	SOIC-8	1k x 16	Microwire serial5	1 .39	.36
200601CH	93C86	DIP-8	1k x 16	Serial (5V)6	9 .62	.55
276681CH	24C16	SOIC-8	2k x 8	2-wire serial4	5 .42	.37
200555CH	24C16-10	DIP-8	2k x 8	Serial CMOS 1.1	9 1.05	.79
276699CH	28C16	SOIC-24	2k x 8	Parallel 2.3	5 1.91	1.69
74691CH	28C16A-25	DIP-24	2k x 8	250ns (5V) CMOS 3.99	9 3.69	3.39
276701CH	28C17	DIP-28	2k x 8	Parallel 2.29	9 2.05	1.95
40416CH	2817A-25 <b>❖</b>	DIP-28	2k x 8	200ns 5V read/write 7.99	7.15	6.49
276728CH	24C32	SOIC-8	4k x 8	2-wire serial5	6 .55	.48
200563CH	24C32-10	DIP-8	4k x 8	Serial CMOS 1.79	9 1.69	1.39
276744CH	24C64	SOIC-8	8k x 8	2-wire serial6	6 .64	.57
200619CH	24C65	DIP-8	8k x 8	Serial CMOS 1.8	9 1.69	1.49
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EEPRO	OM (Conti	nued)		PLCC DIP SOIC	THE PURE
Part No.	Cross Ref.	Pkg.	Description	on 1 10	100
276752CH	28C64	SOIC-28	8k x 8	EEPROM\$3.69 \$3.49	\$3.43
74827CH	28C64A-25	DIP-28	8k x 8	250ns, 5V CMOS 4.49 4.05	3.65
40475CH	2865A <b></b>	DIP-28	8k x 8	250ns 5V read/write 4.95 4.49	4.05
276787CH	24C128	SOIC-8	16K x 8	2-wire serial 1.05 .99	.89
200571CH	24C128-10	DIP-8	16k x 8	Serial CMOS 1.85 1.48	1.31
276808CH	24C256	SOIC-8	32k x 8	2-wire serial 1.45 1.41	1.25
200580CH	24C256-10	DIP-8	32k x 8	Serial CMOS 3.19 2.39	2.15
276816CH	28C256	SOIC-28	32k x 8	Paged parallel CMOS 8.49 7.69	7.05
74878CH	28C256-25	DIP-28	32k x 8	250ns CMOS 8.75 7.45	5.59
74843CH	28C256-15	DIP-28	32k x 8	150ns CMOS 8.99 6.89	6.19
276875CH	24C512	SOIC-8	64k x 8	2-wire serial CMOS 2.65 2.51	2.29
276832CH	24C512	DIP-8	64k x 8	2-wire serial CMOS 2.59 2.39	1.99
276921CH	24C1024	SOIC-8	128k x 8	2-wire serial CMOS 7.59 5.79	5.29
276912CH	24C1024	DIP-8	128k x 8	2-wire serial CMOS 6.79 5.19	4.69
276947CH	28C010	PLCC-32	128k x 8	Paged parallel CMOS \$50.95 23.59 15.89	14.25
242253CH	28C010-15	DIP-32	128k x 8	150ns, 5V CMOS 33.09 30.84	28.27

OTP/P	ROM			DIP MANAGEMENT	PI	_cc ¶	THE
Part No.	Cross Ref.	Pkg. [	Description	n	1	10	100
48531CH	74S188	DIP-16	32 x 8	Open collector (27S18)\$4.	39	\$3.95	\$3.45
48717CH	74S288	DIP-16	32 x 8	Tri-st. (27S19/TBP18S030N) 7.	39	6.39	5.49
27844CH	N82S23	DIP-16	32 x 8	PROM (OC) (27S18)5	99	5.39	4.89
27764CH	N82S123	DIP-16	32 x 8	PROM tri-state (27S19) 8.	.89	8.49	8.09
48696CH	74S287	DIP-16	256 x 4	Tri-state (TBP24S10N)8.	95	7.85	7.09
48805CH	74S387	DIP-16	256 x 4	Open collector (TBP24A10N) 3.	.09	2.79	2.55
27772CH	N82S126	DIP-16	256 x 4	PROM (OC) (27S20) 10.	95	10.39	9.85
27781CH	N82S129	DIP-16	256 x 4	PROM tri-state (27S21) 9.	95	9.45	8.99
48910CH	74S571	DIP-16	512 x 4	Tri-state (27S13) 5.	.69	5.45	4.95
27799CH	N82S131	DIP-16	512 x 4	PROM tri-state (27S13) 7.	99	6.99	5.99
48928CH	74S573	DIP-18	1k x 4	Tri-state (27S33) 3.	39	2.89	2.59
27801CH	N82S137	DIP-18	1k x 4	PROM tri-state (27S33) 6.		6.25	5.65
27810CH	N82S181	DIP-24	1k x 8	Bipolar PROM tri-state 6.	.59	5.59	4.89
27828CH	N82S185	DIP-18	2k x 4	PROM tri-state 3.		3.19	3.09
27836CH	N82S191	DIP-24	2k x 8	PROM tri-state 8.		7.85	7.15
	27C64A-20	PLCC-32	8k x 8	200ns CMOS 2.		2.09	1.69
	27C256-20	PLCC-32		200ns CMOS 1.		1.39	1.29
	27C256-15	PLCC-32	32k x 8	150ns CMOS 1.		1.49	1.39
	27C256-10	PLCC-32		100ns CMOS 1.		1.79	1.69
	27C256-70	PLCC-32	32k x 8	70ns CMOS 2.		1.99	1.89
	27C256-55	PLCC-32		55ns CMOS 2.		2.29	1.89
	27C512-20	PLCC-32		200ns CMOS 1.		1.69	1.49
	27C512-15	PLCC-32		150ns CMOS 1.		1.79	1.59
	27C512-10 PLCC			100ns (12.5V) CMOS 1.		1.89	1.79
	27C512-12 OTP	DIP-28	64k x 8	100ns (12.5V) CMOS 2.		1.99	1.89
	27C512-70	PLCC-32		70ns CMOS 2.		2.19	1.99
	27C512-55	PLCC-32		55ns CMOS 2.		2.39	2.19
	27C010-20		128k x 8	200ns CMOS 1.		1.29	1.19
	27C010-15		128k x 8	150ns CMOS 1.		1.39	1.29
	27C010-10 OTP	DIP-32	128k x 8	100ns (12.5V) CMOS 2.		2.19	1.99
	27C010-10 PLCC			100ns (12.5V) CMOS		1.89	1.65
	27C010-70		128k x 8	70ns CMOS 2.		2.19	1.99
	27C010-55		128k x 8	55ns CMOS		1.57	1.55
	27C020-15		256k x 8	150ns CMOS		3.69	3.29
	27C020-10 OTP	DIP-32	256k x 8	100ns (12.5V) CMOS		3.49	3.19
	27C020-10 PLCC 27C020-20		256k x 8	100ns (12.5V) CMOS		3.69	3.29
	27C020-20 27C020-70		256k x 8	200ns (12V) CMOS		3.49	3.19 3.19
	27C020-70 27C040-15			70ns CMOS		3.79	
	27C040-15 27C040-10 PLCC		512k x 8	150ns CMOS		4.89 5.52	4.69 5.14
	27C040-10 PLCC 27C040-12 OTP	DIP-32	512k x 8	120ns (12.5V) CMOS 4.		4.37	3.95
	27C040-12 01P	PLCC-32	1M x 8	100ns CMOS 9.		8.89	7.69
	27C080-10 27C080-15		1M x 8	150ns (12V) CMOS		7.25	6.55
2072 10CH	27000-15	reuu-32	TIVI X O	130113 (12V) GIVIU3	ບປ	7.20	0.00

Just Added! Dallas 87C/89C MCU Series see page 43.

Flash	Memor	y		DIP NINT	TS0P	<	
Part No.	Cross Ref.	Pkg.	Description	1	1	10	100
242552CH	29C512-12	DIP-32	64k x 8	120ns (5V) CMOS\$4.	59 \$3	.69	\$3.52
242561CH	29F512-90	DIP-32	64k x 8	90ns (5V) CMOS4.	69 3	.89	3.59
74771CH	28F010-15	DIP-32	128k x 8	150ns (12V) CMOS6.	95 6	.25	5.65
242587CH	29F010-120	DIP-32	128k x 8	120ns (5V) CMOS3.	95 3	.65	3.15
242595CH	29F010-90	DIP-32	128k x 8	90ns (5V) CMOS4.	39 4	.09	3.79
242608CH	29F010-70	DIP-32	128k x 8	70ns (5V) CMOS6.	09 4	.99	4.49
74835CH	28F020-15	DIP-32	256k x 8	150ns (12V) CMOS	95 7	.15	6.45
242616CH	29F020-12	DIP-32	256k x 8	120ns (5V) CMOS6.	89 6	.54	6.22
242624CH	29F020-90	DIP-32	256k x 8	90ns (5V) CMOS \$8.69 5.	09 4	.62	4.20
242659CH	29F040-120	DIP-32	512k x 8	120ns (5V) CMOS8.	95 8	.65	8.25
242667CH	29F040-90	DIP-32	512k x 8	90ns (5V) CMOS 12.	05 11	.45	10.85
277211CH	29F800-70	TSOP-48	1M x 8	70ns (5V) top boot 3.	15 2	.75	2.09
277261CH	29F800-70	TSOP-48	1M x 8	70ns (5V) bottom boot 6.	95 6	.59	6.29
277270CH	29F800-120	TSOP-48	1M x 8	120ns (5V) top boot 3.	69 3	.29	3.09
277288CH	29F800-120	TSOP-48	1M x 8	120ns (5V) bottom boot 7.	35 6	.59	5.95
277448CH	28F128-150	TSOP-56	16M x 8	150ns (5V) 22.	69 19	.09	15.39

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Part No.	Cross Ref.	Pkg.	Description	IVISVV	1	10	100
321592CH	M25P05-AVMN6	SOIC-8	64k x 8 3V w	40MHz SPI bus interface	\$1.49	\$1.40	\$1.06
321605CH	M25P10-AVMN6	SOIC-8	128k x 8 3V w	40MHz SPI bus interface	1.69	1.42	1.24
321648CH	M25P20-VMN6	SOIC-8	256k x 8 3V w	40MHz SPI bus interface	1.95	1.64	1.49
321664CH	M25P40-VMN6	SOIC-8	512k x 8 3V w	40MHz SPI bus interface	3.05	2.88	2.74
321672CH	M25P80-VMN6	SOIC-8	1M x 8 3V w	40MHz SPI bus interface	3.35	2.98	2.83

Dynar	nic and	Vide	o RAN	DIP THE DIP	SO1	Transpoor
Part No.	Cross Ref.	Pkg.	Description	n 1	10	100
41339CH	4116-15	DIP-16	16k x 1	150ns (MM5290J-1R) \$.99	\$.89	\$.80
41662CH	4164-150	DIP-16	64k x 1	150ns (MCM6665-15)	.53	.48
41574CH	41464-10♣	DIP-18	64k x 4	100ns (HY53C464S-10) 1.69	1.65	1.59
41427CH	41256-150♣	DIP-16	256k x 1	150ns (P21256-15)	.59	.49
41398CH	41256-120	DIP-16	256k x 1	120ns (MB81256-12)	.65	.59
42315CH	514256P-80	DIP-20	256k x 4	80ns (UPD424256-80) 2.49	2.25	2.05
93374CH	514256P-70	DIP-20	256k x 4	70ns (TC514256P-70) 2.79	2.49	2.19
128688CH	HM514260	SOJ	256k x 16	70ns 3.39	2.88	2.16
42219CH	511000P-10	DIP-18	1M x 1	100ns (M5M4C1000-10) 2.25	1.99	1.79
♣ Pull = Ex	tra Savings					

Static	RAM				DIP 🦙	mm
Part No.	Cross Ref.	Pkg.	Descripti	on 1	10	100
38931CH	2111-1	DIP-18	256 x 4	500ns (AM9111APC) \$1.69	\$1.55	\$1.35
42198CH	5101♣	DIP-22	256 x 4	450ns (CMOS)	7.19	6.49
38957CH	2114N	DIP-18	1k x 4	450ns (9114BPC) 2.29	1.99	1.79
43238CH	6514	DIP-18	1k x 4	350ns CMOS (M58981P) 3.95	3.65	3.35
38973CH	2114N-2	DIP-18	1k x 4	200ns (9114EPC) (U214D20) 2.49	2.09	1.89
38981CH	2114N-2L	DIP-18	1k x 4	200ns low power 2.49	2.25	2.05
243475CH	MBM104174A-10	DIP-24	1k x 4	10ns ECL asynchronous \$3.49 1.59	1.43	1.30
38746CH	2016-20	DIP-24	2k x 8	200ns (MB8128-20) 1.39	1.18	.88
114260CH	DS1220Y-150	DIP-24	2k x 8	150ns 4.25V WP 11.95	10.95	9.85
25911CH	MK48Z02B-15	DIP-24	2k x 8	150ns (16kB) zero-power RAM 6.89	6.39	5.79
42809CH	6116P-3♣	DIP-24	2k x 8	150ns (16kB) CMOS 1.49	1.29	1.09
42753CH	6116LP-3♣	DIP-24	2k x 8	150ns (16kB) LP CMOS 1.95	1.75	1.59
38738CH	2016-12	DIP-24	2k x 8	120ns (AM9128-12) 1.49	1.29	1.19
42796CH	6116P-2♣	DIP-24	2k x 8	120ns (16kB) CMOS 1.59	1.39	1.29
♣ Pull = E	xtra Savings					

## **Free Technical Support**

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	Static	RAM (C	ontinu	ıed)	DIP	SOP/	soJ 🚺	THE CHANGE	Z	7	Zilog Fla	sh N	ICUS (Continued) DIP	PLCC	100
2	Part No. (	Cross Ref.	Pkg.	Description	on	1	10	100	Part No		Cross Ref.	Pkg.	Description	1 10	100
3		6116P-1	DIP-24		100ns (16kB) CMOS		\$1.49	\$1.39			Z8F6401PM020SC		64kB ROM, 4kB RAM, 46 I/O, A/D \$16.8		
	42737CH	6116LP-1	DIP-24	2k x 8	100ns (16kB) LP CMOS	1.99	1.79	1.65	280399	СН	Z8F6401VN020SC	PLCC-44	64kB ROM, 4kB RAM, 46 I/O, A/D 16.8	5 13.25	12.55
3	242675CH 6	6116-70	DIP-24	2k x 8	70ns (5V) CMOS async.	2.09	1.99	1.89	280401	СН	Z8F6402VS020SC	PLCC-68	64kB ROM, 4kB RAM, 46 I/O, A/D 17.3	5 13.65	12.95
	242683CH (	CY7C128A-45	DIP-24	2k x 8	45ns (5V) CMOS async.	\$5.39 2.85	2.58	2.35	-						
5	242691CH (	CY7C128A-35	DIP-24	2k x 8	35ns (5V) CMOS async.		2.27	2.06	4	7	28 OTP N	<b>ICUs</b>	DIP MANY	SOIC	BUTTER STORE
		CY7C128A-25		2k x 8	25ns (5V) CMOS async.		2.11	1.91					3501000		
		CY7C128A-15		2k x 8	` '		4.19	3.19	Part No		Z86E3016PSC	Pkg.	Description  RAM/ROM Protect, 24 I/O lines		
		DS1225Y-200			200ns, 4.25V WP		14.49	11.65	1				RAM/ROM Protect, 24 I/O lines		
		DS1225AB-150 6264P-12♣	DIP-28		150ns, 4.62V WP 120ns (64kB) CMOS		14.49 2.39	9.89 2.15			Z86E0812SSC1866		ROM protect, 14 I/O lines		
			DIP-28		120ns (64kB) LP CMOS		2.49	2.19			Z86E0812PSC1866		ROM protect, 14 I/O lines		
		6264P-10♣	DIP-28		100ns (64kB) CMOS		2.29	1.99	281287	СН	Z86E0812PEC	DIP-18	ROM protect, 14 I/O lines 4.3		2.45
			DIP-28		100ns (64kB) LP CMOS		2.49	2.25	281295	СН	Z86E0208SSC1925	SOIC-18	ROM protect, 14 I/O lines, 1 cntr/timer 1.8	9 1.65	1.45
	85121CH 6	6264LP-70	DIP-28	8k x 8			3.05	2.75	-						
	242721CH 6	6264-55	DIP-28	8k x 8	55ns (5V) CMOS async.	3.29	2.59	2.09	4	7	Zilog Z80	MP	Us DIP	PLCC 1	100
	242333CH (	CY7C185-35	DIP-28	8k x 8	35ns (5V) CMOS async.	2.89	2.29	1.79	Part No		Cross Ref.	Pkg.	F.V. F. C.	1 10	100
	242341CH (		DIP-28	8k x 8	25ns (5V) CMOS async.		2.29	1.79	355610		Z80♣	DIP-40	2.5MHz CPU (MK3880N/780C)		
	242350CH		DIP-28	8k x 8	20ns 5V asynchronous .		2.29	1.79	355960			DIP-40	4MHz CPU (MK3880N-4/780C-1) 1.9		
		DS1230Y-150			150ns, 4.37V WP		18.95	15.15	356090		Z80A-CTC♣	DIP-28	4MHz counter timer circuit (MK3882-4) 1.9		
		43256-12L♣ (335(LD 13♠			120ns low power NEC		4.49	4.09	356250	H	Z80A-DART♣	DIP-40	4MHz dual asynchronous receiver/trans. 3.4	9 3.19	2.89
		62256LP-12 <b>♣</b> DS1230Y-100			120ns low power CMOS . 100ns, 4.37V WP		3.49 13.75	3.19 12.85	356410	H	Z80A-PIO♣	DIP-40	4MHz parallel I/O interf. contr. (MK3881-4) 1.4	9 1.29	1.15
		43256-10L <b>♣</b>			100ns low power NEC		4.99	4.49	356680	H	Z80A-SIO/0♣	DIP-40	4MHz serial I/O (TxCB & RxCB bond.) MK3884-4 2.1	9 1.79	1.59
		62256LP-10♣			100ns low power CMOS .		3.55	2.65	357050		Z80B	DIP-40	6MHz CPU (MK3880N-6) 2.5		
		62256LP-85	DIP-28	32k x 8	85ns low power CMOS .		2.49	1.99			Z8018006PSC		Z180 MPU, MMU, DMA. UART, INTC 9.2		
	82472CH	62256LP-70	DIP-28	32k x 8	70ns low power CMOS .	5.49	4.99	4.49					Z180 MPU, MMU, DMA, UART, INTC 9.2		
	279814CH 6	62256S-70	SOJ-28	32k x 8	70ns 5V CMOS		1.48	1.36			Z8018008PSC		Z180 MPU, MMU, DMA. UART, INTC 9.66 Z180 MPU, MMU, DMA. UART, INTC 9.99		
	242499CH [	DS1230Y-70	DIP-28	32k x 8	70ns nonvol. 4.5V WP	22.85	19.95	14.27			Z8018010PSC		Z180 MPU, MMU, DMA. UART, INTC 7.8		
		M5M5258P-35		32k x 8	35ns 5V asynchronous .		1.59	1.19					Z180 MPU, MMU, DMA. UART, INTC 11.2		
		CY7C199-35V			35ns		1.29	1.09	1		Z8S18020PSC		Z180 MPU, MMU, DMA. UART, INTC 13.3		
		CY7C199-25V			25ns		1.39	1.05					Z180 MPU, MMU, DMA. UART, INTC 12.9		
		CY7C199-20V UM61M256K-15		32k x 8 32k x 8	20ns 15ns hi speed CMOS (.3		1.39 2.99	1.05	280495	СН	Z8S18033VSC	PLCC-68	Z180 MPU, MMU, DMA. UART, INTC 9.5	9.35	9.09
	279857CH (			32k x 8	15ns	•	1.24	2.69 1.00	357810	H	Z84C00-4	DIP-40	4MHz CPU (Z84C0004PEC) CMOS 4.1	5 3.49	2.55
	279865CH			32k x 8	12ns		1.49	1.12	280508	CH	Z84C0006VEC	PLCC-44	Z80 CPU with 3 mode int., 16 regs 3.0	9 2.79	2.39
		628128LP-85 <b>4</b>			85ns low power CMOS .		7.49	6.79	1		Z84C0008PEC		Z80 CPU with 3 mode int., 16 regs 3.2		
	131810CH 6	628128LP-70	DIP-32	128k x 8	70ns low power CMOS .		7.39	6.69					Z80 CPU with 3 mode int., 16 regs 3.3		
	279873CH 6	628128S-70	SOP-32	128k x 8	70ns	2.49	2.19	1.89			Z84C0010PEC		Z80 CPU with 3 mode int., 16 regs 3.25 Z80 CPU with 3 mode int., 16 regs 4.86		
	279911CH (	CY7C109B-12V	SOJ-32	128k x 8	12ns	2.99	2.55	1.99					Z80 CPU with 3 mode int., 16 regs 4.6		
	280014CH 6			256k x 16			6.89	6.35			Z84C4008PEC		Dual data ch. communication interface 7.2		
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			303-30	3128 8 0	20ns	7.77	0.07	1.17	617860	H	Z85C3008PSC	DIP-40	Serial communications controller 5.66	9 5.19	4.39
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		Z8F1601VN020SC			OM, 2kB RAM, 31 I/O, A/D		8.99	8.59			W65C816S89-1				
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**43537CH** MC6808

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	MC68HC908OT2CDW		MCU, flash 1.5k ROM, 6 I/O, A/D 2.39	2.29	2.0
, ,	MC68HC908QT2CP	00.00	MCU, flash 1.5k ROM, 6 I/O, A/D 2.39	2.55	2.0
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	MC68HC908QT4CPW		MCU, flash 4k ROM, 6 I/O, A/D	1.65	
			MCU, flash 1.5k ROM, 14 I/O 2.49		1.4
				2.39	2.1
	MC68HC908QY1CP		MCU, flash 1.5k ROM, 14 I/O	1.65	1.4
			MCU, flash 1.5k ROM, 13 I/O, A/D 2.85	2.69	2.4
	MC68HC908QY2CP		MCU, flash 1.5k ROM, 13 I/O, A/D 2.55	1.95	1.7
			MCU, flash 4k ROM, 13 I/O A/D 2.89	2.49	2.2
	MC68HC908QY4CP		MCU, flash 4k ROM, 13 I/O A/D 2.89	2.49	2.2
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					Mar.
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52978CH	87C514	DIP-40	CPU w/ 4k EPROM & 128x8 RAM (3.5-12MHz) 21.99	19.79	17.49
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53090CH	8755	DIP-40	16k EPROM with I/O	8.09	7.29
	T89C51RB2		MCU, flash 16k ROM, 32 I/O 8.65	7.79	7.05
248719CH	T89C51RC2	PLCC-44	MCU, flash 32k ROM, 32 I/O 10.25	9.19	8.29

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\*8049 (ROM not available for use) Tie pin 7 high to bypass the internal ROM to convert 8049 to 8039

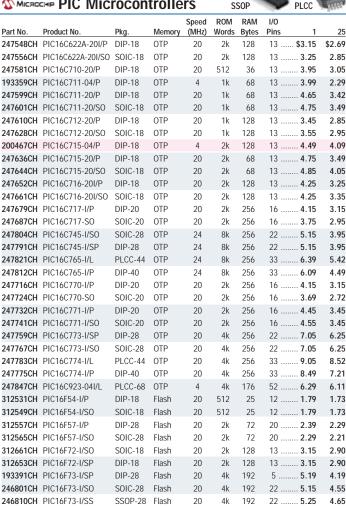
\*\* Tie pin 31 low to bypass the internal ROM

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51692CH 80C39♣

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Part No.	Product No.	Pkg.	Memory	Speed (MHz)	ROM Words	RAM Bytes	I/O Pins	<b>i</b>	1	25
	PIC10F200-I/P	DIP-8	Flash	4	384	16		\$.8		\$.82
	PIC10F202-I/P PIC10F204-I/P	DIP-8 DIP-8	Flash Flash	4	768 384	24 16		1.0 1.0		.94 .94
	PIC10F204-I/P	DIP-8	Flash	4	768	24		1.0 1.1		1.08
	PIC12C508A-04/P	DIP-8	OTP	4	512	25		1.4		.99
145058CH	PIC12C509A/JW	DIP-8	EPROM	4	1k	41	5	13.9	95	12.59
	PIC12C509A-04/P	DIP-8	OTP	4	1k	41		1.4		1.09
	PIC12C671-04/P	DIP-8	OTP	4	1k	128		2.7		2.42
	PIC12C672-04/P PIC12CE518-04/P	DIP-8	OTP OTP	4	2k 512	128 25		2.7 1.7		2.28 1.55
	PIC12CE519-04/P	DIP-8	OTP	4	1k	41		1.9		1.69
	PIC12CE673-10/P	DIP-8	OTP	10	1k	128		3.3		3.19
248145CH	PIC12CE674-10/P	DIP-8	OTP	10	2k	128	5	3.4	45	2.89
	PIC12F629-I/P	DIP-8	Flash	20	1k	64		1.5		1.39
	PIC12F629-I/SN	SOIC-8	Flash	20	1k	64		1.5		1.29
	PIC12F635-I/P PIC12F635-I/SN	DIP-8 SOIC-8	Flash Flash	20 20	2k 2k	64 64		1.7 1.7		1.66 1.66
	PIC12F675-I/P	DIP-8	Flash	20	1k	64		1.9		1.69
	PIC12F675-I/SN	SOIC-8	Flash	20	1k	64		1.9		1.83
312514CH	PIC12F683-I/P	DIP-8	Flash	20	4k	128	6	2.1	19	2.05
	PIC12F683-I/SN	SOIC-8	Flash	20	4k	128		2.1		2.05
	PIC14000-4/SP	DIP-28	OTP	4	4k	192		11.9		11.45
	PIC14000-4/S0 PIC16C54A-04/P	SOIC-28 DIP-18	OTP OTP	4	4k 512	192 25		11.6		11.55 2.59
	PIC16C54A-04/I	DIP-18	OTP	20	512	25		2.3		2.05
	PIC16C54C-20I/SO	SOIC-18	OTP	20	512	25		2.3		2.15
247231CH	PIC16C54C-20I/SS	SSOP-20	OTP	20	512	25	12	2.5	55	2.35
	PIC16C55A-04/P	DIP-28	OTP	4	512	24		2.6		2.19
	PIC16C55A-20I/P	DIP-28	OTP	20	512	24		2.9		2.85
	PIC16C55A-20/S0 PIC16C56-RC/P	SOIC-28 DIP-18	OTP OTP	20 20	512 1k	24 25		3.0		2.75 3.69
	PIC16C56A-20I/P	DIP-18	OTP	20	1k	25		2.8		2.55
247273CH	PIC16C56A-20/SO	SOIC-18	OTP	20	1k	25	12	2.6	65	2.35
	PIC16C57C/JW	DIP-28	EPROM	40	2k	72		13.9		12.95
	PIC16C57C-04/P	DIP-28	OTP	4	2k	72		3.1		2.09
	PIC16C57C-20/P PIC16C57C-20/S0	DIP-28 SOIC-28	OTP OTP	20 20	2k 2k	72 72		3.4		3.05 3.25
	PIC16C58B-20/P	DIP-18	OTP	20	2k	73		2.7		2.45
247311CH	PIC16C58B-20/SO	SOIC-18	OTP	20	2k	73		2.8		2.55
247433CH	PIC16C62B-20/S0	SOIC-28	OTP	20	2k	128	22	4.4	45	3.95
	PIC16C62B-20/SP	DIP-28	OTP	20	2k	128		4.4		3.95
	PIC16C63A-20/SP	DIP-28	OTP	20	4k	192		5.4		4.49
	PIC16C65B-20I/L PIC16C65B-20I/P	PLCC-44 DIP-40	OTP OTP	20 20	4k 4k	192 192		7.8		7.75 5.69
	PIC16C66-04/SP	DIP-18	OTP	4	8k	368		7.4		6.45
	PIC16C66-20I/SO	SOIC-28	OTP	20	8k	368		8.7		7.75
	PIC16C66-20I/SP	DIP-28	OTP	20	8k	368		8.7		7.75
	PIC16C67-20/L	PLCC-44	OTP	20	8k	368		9.1		8.95
	PIC16C67-20/P PIC16C72A-04/SP	DIP-40 DIP-28	OTP OTP	20 4	8k 2k	368 128		4.9		7.75 4.39
	PIC16C72A-04/SP	DIP-28	OTP	20	2k	128		5.8		5.15
	PIC16C72A-20I/SO	SOIC-28	OTP	20	2k	128		5.8		5.15
	PIC16C73A-04/SP	DIP-28	OTP	4	4k	192	22	8.6	65	7.79
	PIC16C74A/JW	DIP-40	EPROM	20	14k	192		19.9		17.99
	PIC16C505-04/P	DIP-14	OTP	20	1k	72 72		1.9		1.29
	PIC16C505-20I/P PIC16C505-20I/SL	DIP-14 SOIC-14	OTP OTP	20 20	1k 1k	72 72		2.0		1.85 1.69
	PIC16C554-4/P	DIP-18	OTP	4	512	80		3.7		3.65
	PIC16C554-4/SO	SOIC-18	OTP	4	512	80		3.8		3.75
247409CH	PIC16C558-20/P	DIP-18	OTP	20	2k	128		4.5		3.87
	PIC16C558-20/S0	SOIC-18	OTP	20	2k	128		4.9		4.85
	PIC16C620A-20I/P	DIP-18	OTP	20	512	96		2.2		2.05
	PIC16C620A-20I/SO PIC16C621A-20I/P	SOIC-18 DIP-18	OTP OTP	20	512 1k	96 96		2.3		2.05
	PIC16C621A-20I/SO		OTP	20	1k	96		2.5		2.43

Міспоснір РІ	C Micro	controllers
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### **Programming & Customizing PICmicro Microcontrollers**

#### Second Edition

246772CH PIC16F74-I/L

193404CH PIC16F74-I/P

246781CH PIC16F74-I/P

246828CH PIC16F76-I/SO

193412CH PIC16F76-I/SP

246836CH PIC16F76-I/SS

246799CH PIC16F77-I/L

McGraw-Hill Details the features of the PICmicro® and how to use these embedded chips to access and control many different devices. Shows what happens within the PICmicro® when an instruction is executed and how it interfaces with external devices. (1190 pages, 2001)

PLCC-44

TOFP-44

SOIC-28

DIP-28

SSOP-28 Flash

PLCC-44 Flash

DIP-40

Flash

Flash

Flash

Flash

Flash

20

20

20

20

20

20

4k 192

4k 192

4k 192

8k 368

8k 368

8k 368

368

33 .....

22 .....

33 7.45

22 ..... **6.35** 

5 ..... **6.49** 

33 ...... 7.85

6.19

6.49

6.45

5.19

6.55

5.65

5.39

5.52

6.99

Includes: CD-ROM and PIC PCB

Part No.	Description	Size	Wt. (lbs.)	Price
183046CH	PICmicro Programming	9.2" x 7.3"	4.0	\$49.95

#### Time'n and Count'n

#### Intermediate Level PIC Applications

Square 1 Publishing This book previously appeared in PIC'n Techniques book. The more current PIC16F870 is substituted for the PIC16C63. Topics such as test equipment for timing & counting experiments to using timer 1 & 2, and capture/ compare/PWM as well as programs are included in this book. (218 pages, 2002)

- 1	parc/r vvivi	as well as programs	die ilielaaca ili ti	113 DOOK. (2 10 page	3, 2002)
1	Part No.	Description	Size	Wt. (lbs.)	Price
	210489CH	Time'n and Count'n	8.5" x 11.0"	1.4	\$34.95

2.29

193383CH PIC16C622A-04/P DIP-18

OTP

128

13 ..

.... 2.69

MICROCHIP PIC Microcontrollers						DIP SOIC			
Part No.	Product No.	Pkg.	Memory	Speed (MHz)	ROM Words	RAM Bytes	I/O Pins	1	25
193421CH	PIC16F77-I/P	DIP-40	Flash	20	8k	368	8	\$7.09	\$5.89
	PIC16F84-04/P	DIP-18	Flash	4	1k	68		6.59	4.39
	PIC16F84-10/P	DIP-18	Flash	10	1k	68		7.09	5.99
193332CH	PIC16F84A-20/P	DIP-18	Flash	20	1k	68		5.79	4.69
	PIC16F84A-20/S0	SOIC-18	Flash	20	1k	68		5.75	5.05
	PIC16F84A-20/SS	SSOP-20	Flash	20	1k	68		6.15	5.75
	PIC16F84A-20I/P	DIP-18	Flash	20	1k	68		6.25	5.55
	PIC16F84A-20I/S0	SOIC-18	Flash	20	1k	68		6.35	5.55
	PIC16F84A-20I/SS	SSOP-20	Flash	20	1k	68		6.75	6.25
247097CH	PIC16F87-I/P	DIP-18	Flash	20	4k	368		4.05	3.15
	PIC16F87-I/SO	SOIC-18	Flash	20	4k	368	16 .	4.15	3.15
	PIC16F87-I/SS	SSOP-20	Flash	20	4k	368	16 .	4.45	3.65
	PIC16F88-I/P	DIP-18	Flash	20	7k	368		4.15	3.35
	PIC16F88-I/SO	SOIC-18	Flash	20	7k	368		4.25	3.42
	PIC16F505-I/P	DIP-14	Flash	20	1k	72		1.65	1.49
	PIC16F627-20/P	DIP-18	Flash	20	1k	224		3.29	2.55
	PIC16F628-20/P	DIP-18	Flash	20	2k	224		3.69	2.69
	PIC16F628-20/S0	SOIC-18	Flash	20	2k	224		3.79	2.85
	PIC16F628-20/SS	SSOP-20	Flash	20	2k	224		4.05	3.15
	PIC16F628-20I/P	DIP-18	Flash	20	2k	224		4.05	3.15
	PIC16F628-20I/SO	SOIC-18	Flash	20	2k	224		4.09	3.02
	PIC16F630-I/P	DIP-14	Flash	20	1k	64		1.89	1.59
	PIC16F630-I/SL	SOIC-14	Flash	20	1k	128		1.85	1.65
	PIC16F630-I/ST	TSSOP-14		20	1k	128		2.05	1.85
	PIC16F636-I/P	DIP-14	Flash	20	2k	128		2.09	1.91
	PIC16F636-I/ST	TSSOP-14		20	2k	128		2.19	1.70
	PIC16F648A-I/P	DIP-18	Flash	20	4k	256		3.25	2.55
	PIC16F648A-I/SO	SOIC-18	Flash	20	4k	256		3.25	2.55
	PIC16F648A-I/SS	SSOP-20		20	4k	256		3.59	2.66
	PIC16F676-I/P	DIP-14	Flash	20	1k	64		2.19	1.79
	PIC16F676-I/SL	SOIC-14	Flash	20	1k	64		2.15	1.95
247185CH	PIC16F676-I/ST	TSSOP-14	Flash	20	1k	64		2.35	2.00
	PIC16F684-I/P	DIP-14	Flash	20	2k	128		2.35	2.17
312602CH	PIC16F684-I/ST	TSSOP-14	Flash	20	2k	128	12 .	2.59	2.37
	PIC16F688-I/P	DIP-14	Flash	20	4k	256		2.79	2.59
312629CH	PIC16F688-I/ST	TSSOP-14	Flash	20	4k	256		3.05	2.79
312637CH	PIC16F716-I/P	DIP-28	Flash	20	2k	128	13 .	2.35	2.17
312645CH	PIC16F716-I/S0	SOIC-18	Flash	20	2k	128	13 .	2.35	2.17
312688CH	PIC16F737-I/S0	SOIC-28	Flash	20	4k	368	25 .	5.55	4.75
312670CH	PIC16F737-I/SP	DIP-28	Flash	20	4k	368	25 .	5.39	4.65
312696CH	PIC16F747-I/P	DIP-40	Flash	20	4k	368	36 .	6.45	5.45
312717CH	PIC16F767-I/S0	SOIC-28	Flash	20	8k	368		6.69	5.47
312709CH	PIC16F767-I/SP	DIP-28	Flash	20	8k	368	25 .	6.29	5.36
312725CH	PIC16F777-I/P	DIP-40	Flash	20	8k	368	36 .	6.89	5.90
223765CH	PIC16F818-I/P	DIP-18	Flash	20	1k	128	16 .	3.09	2.29
247054CH	PIC16F818-I/S0	SOIC-18	Flash	20	1k	128	16 .	3.15	2.45
247062CH	PIC16F818-I/SS	SSOP-20	Flash	20	1k	128	16 .	3.35	2.65
223773CH	PIC16F819-I/P	DIP-18	Flash	20	2k	256	16 .	3.59	2.59
247089CH	PIC16F819-I/SO	SOIC-18	Flash	20	2k	256	16 .	3.55	2.75
247071CH	PIC16F819-I/SS	SSOP-20	Flash	20	2k	256	16 .	3.85	2.95
246908CH	PIC16F870-I/SO	SOIC-28	Flash	20	2k	128	22 .	4.35	3.69
246895CH	PIC16F870-I/SP	DIP-28	Flash	20	2k	128	22 .	4.35	3.69

MICROCHIP	PIC	Microcontrollers



Part No.	Product No.	Pkg.	Memory	Speed (MHz)	ROM Words	RAM Bytes	I/0 Pins 1	25
	PIC16F870-I/SS	SSOP-28	Flash	20	2k	128	22 \$4.49	\$3.81
	PIC16F871-I/L	PLCC-44	Flash	20	2k	128	33 5.85	5.65
	PIC16F871-I/P	DIP-40	Flash	20	2k	128	33 5.15	4.65
	PIC16F872-I/SO	SOIC-28	Flash	20	2k	128	22 <b>4.35</b>	3.69
	PIC16F872-I/SP	DIP-28	Flash	20	2k	128	22 <b>4.35</b>	3.69
246967CH	PIC16F872-I/SS	SSOP-28	Flash	20	2k	128	22 4.49	3.81
246983CH	PIC16F873A-I/SO	SOIC-28	Flash	20	4k	192	22 <b>6.25</b>	5.55
246975CH	PIC16F873A-I/SP	DIP-28	Flash	20	4k	192	22 <b>6.29</b>	5.19
247003CH	PIC16F874A-I/L	PLCC-44	Flash	20	4k	192	33 <b>7.55</b>	6.73
246991CH	PIC16F874A-I/P	DIP-40	Flash	20	4k	192	33 <b>6.75</b>	5.95
247020CH	PIC16F876A-I/SO	SOIC-28	Flash	20	8k	368	22 <b>6.65</b>	5.85
247011CH	PIC16F876A-I/SP	DIP-28	Flash	20	8k	368	22 <b>6.65</b>	5.85
193367CH	PIC16F876-20/SP	DIP-28	Flash	20	256	368	22 <b>7.89</b>	6.69
247046CH	PIC16F877A-I/L	PLCC-44	Flash	20	8k	368	33 <b>8.15</b>	7.65
247038CH	PIC16F877A-I/P	DIP-40	Flash	20	8k	368	33 <b>7.25</b>	5.05
176882CH	PIC16F877-20/P	DIP-40	Flash	20	256	368	33 <b>9.49</b>	8.49
247345CH	PIC16HV540-20/P	DIP-18	OTP	20	512	25	12 <b>2.35</b>	2.05
247353CH	PIC16HV540-20/S0	SSOP-20	OTP	20	512	25	12 <b>2.35</b>	2.00
247880CH	PIC17C42A-16/L	PLCC-44	OTP	16	2k	232	33 <b>10.39</b>	9.64
247871CH	PIC17C42A-16/P	DIP-40	OTP	16	2k	232	33 <b>9.39</b>	8.29
247901CH	PIC17C43-25/L	PLCC-44	OTP	25	4k	454	33 <b>13.85</b>	12.95
247898CH	PIC17C43-25/P	DIP-40	OTP	25	4k	454	33 <b>11.85</b>	10.45
247927CH	PIC17C44-33/L	PLCC-44	OTP	33	8k	454	33 <b>15.39</b>	13.59
247919CH	PIC17C44-33/P	DIP-40	OTP	33	8k	454	33 <b>14.75</b>	12.40
247935CH	PIC17C752-33/L	PLCC-68	OTP	33	8k	678	50 <b>13.95</b>	12.95
247943CH	PIC17C756A-33I/L	PLCC-68	OTP	33	16k	902	50 <b>16.05</b>	14.89
247951CH	PIC17C762-16/L	PLCC-84	OTP	33	8k	678	66 <b>16.75</b>	16.65
247960CH	PIC17C766-33I/L	PLCC-84	OTP	33	16k	902	66 <b>19.25</b>	17.89
200491CH	PIC18C242-I/SP	DIP-28	OTP	40	16k	512	23 <b>6.95</b>	6.57
	PIC18C252-I/SP	DIP-28	OTP	40	32k	1536	23 <b>7.75</b>	6.95
	PIC18C452-I/P	DIP-40	OTP	40	32k	1536	23 <b>9.19</b>	7.49
	PIC18C452/JW	DIP-40	EPROM	40	32k	1536	23 <b>22.85</b>	20.55
	PIC18F242-I/S0	SOIC-28	Flash	40	8k	768	23 <b>7.39</b>	6.61
	PIC18F242-I/SP	DIP-28	Flash	40	8k	768	23 <b>7.39</b>	6.61
	PIC18F248-I/S0	SOIC-28	Flash	40	16k	768	22 <b>8.49</b>	7.85
	PIC18F248-I/SP	DIP-28	Flash	40	16k	768	22 8.49	7.82
	PIC18F252-I/S0	SOIC-28	Flash	40	16k	1536	23 8.05	7.20
	PIC18F252-I/SP	DIP-28	Flash	40	16k	1536	23 8.05	7.20
	PIC18F258-I/SO	SOIC-28	Flash	40	16k	1536	23 9.65	8.62
248014CH	PIC18F258-I/SP	DIP-28	Flash	40	16k	1536	23 <b>9.65</b>	8.62

### Easy Microcontrol'n

Beginners Guide (Version 4)

Square 1 Publishing A revision of and successor to Easy PIC'n that covers Peripheral Interface Controller (PIC) PIC16F84, writing programs, interrupts, timing and counting. (178 pages, 2002)

Part No.	Description	Size	Weight	Price
215061CH	Easy Microcontrol'n	8.5" x 11.0"	1.2 lbs.	\$29.95

See Additional Microcontroller Books on pages 10 and 12.

#### **Serial Communications**

Serial Communications PIC Applications

Square 1 Publishing Topics such as asynchronous serial communications, RS242 standard, ASCII character code, bit-bang asynchronous communications and synchronous serial communications to name a few are covered in this book as well as tool box modules and applications. (566 pages, 2002)

• Size: 8.6" x 11.0" • Weight: 3.5 lbs.

 Part No.
 Description
 Price

 210497CH
 Serial Communications
 \$49.95

### Microcontrol'n Apps

PIC Microcontroller Applications (Version 2)

Square 1 Publishing This book is a revision of and the successor to PIC'n Up The Pace. Materials covered in the book include talking to a PIC microcontroller with a PC running a terminal, simple data logger and digital voltmeter experiment, PIC16F87x and 10-bit A/D conversion. (437 pgs, 2002)

• Size: 8.5" x 11.0"

• Weight: 1.7 lbs.

### **PIC Microcontroller Project Book**

Comprehensive Beginner's Guide

McGraw-Hill Hands-on directions for putting Microchip's RISC-based chips with up to 8k of memory to work. Starting with simple projects and experiments, this book leads you gradually into sophisticated programming techniques. Provides you guidance on a

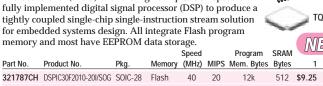
techniques. Provides you guidance on getting the equipment you need and programming your chip. (203 pages, 2000) • Size: 7.3" x 9.2" • Wt.: 1.0 lbs.

ı	Part No.	Description	Price
	174650CH	PIC Beginner's Guide	\$29.95

MICROCHIP PIC Microcontrollers						DIP			Time
Part No.	Product No.	Pkg.	Memory	Speed (MHz)	ROM Words	RAM Bytes	I/O Pins	1	25
248081CH	PIC18F442-I/L	PLCC-44	Flash	40	8k	768	34	\$9.59	\$8.63
248073CH	PIC18F442-I/P	DIP-40	Flash	40	8k	768	34	8.15	7.35
312477CH	PIC18F448-I/L	PLCC-44	Flash	40	16k	768	33	9.65	9.22
312469CH	PIC18F448-I/P	DIP-40	Flash	40	16k	768	33	8.69	8.05
248049CH	PIC18F452-I/L	PLCC-44	Flash	40	16k	1536	34	10.29	9.26
248031CH	PIC18F452-I/P	DIP-40	Flash	40	16k	1536	34	8.85	7.99
248090CH	PIC18F1220-I/P	DIP-18	Flash	40	2k	256	16	4.35	3.89
248102CH	PIC18F1220-I/S0	SOIC-18	Flash	40	2k	256	16	4.35	3.89
248111CH	PIC18F1320-I/P	DIP-18	Flash	40	4k	256	16	4.89	4.40
248129CH	PIC18F1320-I/S0	SOIC-18	Flash	40	4k	256	16	4.89	4.40
311861CH	PIC18F2220-I/SP	DIP-28	Flash	40	4k	512	25	6.69	6.15
311917CH	PIC18F2320-I/S0	SOIC-28	Flash	40	8k	512	25	7.05	6.65
311909CH	PIC18F2320-I/SP	DIP-28	Flash	40	8k	512	25	7.05	6.64
311984CH	PIC18F2331/I/SO	SOIC-28	Flash	40	8k	512	25	7.79	7.17
311950CH	PIC18F2331-I/SP	DIP-28	Flash	40	8K	768	24	7.85	7.21
312098CH	PIC18F2431-I/S0	SOIC-28	Flash	40	16k	768	24	8.05	7.45
312071CH	PIC18F2431-I/SP	DIP-28	Flash	40	16k	768	24	8.09	7.46
312274CH	PIC18F2439-I/S0	SOIC-28	Flash	40	12k	640	21	7.09	6.52
312231CH	PIC18F2439-I/SP	DIP-28	Flash	40	12k	640	21	7.09	6.52
312311CH	PIC18F2525-I/SO	SOIC-28	Flash	40	48k	3986	25	8.75	7.70
312303CH	PIC18F2525-I/SP	DIP-28	Flash	40	48k	3986	25	9.05	8.00
312346CH	PIC18F2539-I/SO	SOIC-28	Flash	40	24k	1408	21	7.75	7.10
312338CH	PIC18F2539-I/SP	DIP-28	Flash	40	24k	1408	21	7.69	7.10
312400CH	PIC18F4220-I/P	DIP-40	Flash	40	4k	512	36	7.15	6.77
312426CH	PIC18F4320-I/P	DIP-40	Flash	40	8k	512	36	7.95	7.30
312434CH	PIC18F4331-I/P	DIP-40	Flash	40	8k	768	36	8.89	7.86
312451CH	PIC18F4431-I/P	DIP-40	Flash	40	16k	768	36	8.85	8.15
312442CH	PIC18F4439-I/P	DIP-40	Flash	40	12k	640	32	7.89	7.26
312485CH	PIC18F4539-I/P	DIP-40	Flash	40	24k	1408	32	8.55	7.86
248065CH	PIC18F458-I/L	PLCC-44	Flash	40	16k	1536	34	11.15	10.05
248057CH	PIC18F458-I/P	DIP-40	Flash	40	16k	1536	34	9.79	8.75

### **№** МICROCHIP 16-Bit Digital Signal Converters

The dsPIC® Digital Signal Controller (DSC) from Microchip is a powerful 16-bit (data) modified Harvard RISC machine that combines the control advantages of a high-performance 16-bit microcontroller (MCU) with the high computation speed of a fully implemented digital signal processor (DSP) to produce a tightly coupled single-chip single-instruction stream solution for embedded systems design. All integrate Flash program



				Speeu		Program	SKAIVI		
Part No.	Product No.	Pkg.	Memory	(MHz)	MIPS	Mem. Bytes	Bytes	1	25
321787CH	DSPIC30F2010-20I/SOG	SOIC-28	Flash	40	20	12k	512	\$9.25	\$7.89
321779CH	DSPIC30F2010-20I/SPG	DIP-28	Flash	40	20	12k	512	9.19	7.90
321808CH	DSPIC30F2010-30I/SOG	SOIC-28	Flash	40	30	12k	512	10.69	9.09
321795CH	DSPIC30F2010-30I/SPG	DIP-28	Flash	40	30	12k	512	10.79	9.09
321816CH	DSPIC30F6010-20I/PF	TQFP-80	Flash	40	20	144k	8192	27.65	22.75
321824CH	DSPIC30F6010-30I/PF	TQFP-80	Flash	40	30	144k	8192	28.99	26.15
321832CH	DSPIC30F6011-20I/PF	TQFP-64	Flash	40	20	132k	6144	23.29	18.79
321841CH	DSPIC30F6011-30I/PF	TQFP-64	Flash	40	30	132k	6144	26.79	21.65
321859CH	DSPIC30F6012-20I/PF	TQFP-64	Flash	40	20	144k	8192	25.79	20.99
321867CH	DSPIC30F6012-30I/PF	TQFP-64	Flash	40	30	144k	8192	29.89	24.15
323053CH	DSPIC30F6013-20I/PF	TQFP-80	Flash	40	20	132k	6144	24.75	19.95
323061CH	DSPIC30F6013-30I/PF	TQFP-80	Flash	40	30	132k	6144	28.45	22.95
323070CH	DSPIC30F6014-20I/PF	TQFP-80	Flash	40	20	144k	8192	27.39	22.15
323088CH	DSPIC30F6014-30I/PF	TQFP-80	Flash	40	30	144k	8192	31.35	25.49

### **PIC BASIC Programming and Projects**

Newnes Publications The BASIC language, is introduced from square one, with simple code used to illustrate each of the most commonly used instructions. PIC BASIC is the simplest and quickest way to get up and running – designing and building circuits using a microcontroller. (210 pages, 2001)

	,		,		
Part No.	Description	Size	Weight	1	10
200168CH	PIC BASIC Programming	6.1" x 9.2	0.8 lbs	. \$37.25	\$35.36

<u>AIMEL</u>	Microconti	ollers	DIP /	79777	SOIC	STUTUTE OF	PLCC	mi
Part No.	Product No.	Pkg.	Description				1	25
248330CH	ATMEGA8-16PI	DIP-28	8-bit MCU,	16MHz 8	kB flash		\$5.25	\$4.41
323133CH	ATMEGA16-16PI	DIP-40	8-bit AVR M	CU, 16MH	z w/ 16kE	3 prog flash	6.25	3.91
248153CH	ATTINY11-6PC	DIP-8	8-bit MCU,	6MHz 1kl	B flash		1.48	1.32
248161CH	ATTINY11-6SI	SOIC-8	8-bit MCU,	6MHz 1kl	B flash		1.79	1.51
248170CH	ATTINY12-8PC	DIP-8	8-bit MCU,	8MHz 1kl	B flash		1.85	1.59
248188CH	ATTINY12-8SI	SOIC-8	8-bit MCU,	8MHz 1kl	B flash		1.99	1.69
248196CH	ATTINY15L-1PC	DIP-8	8-bit MCU,	1.6MHz 1	IkB flash	١	2.99	2.53
248209CH	ATTINY15L-1SI	SOIC-8	8-bit MCU,	1.6MHz 1	IkB flash	١	2.99	2.53
248217CH	ATTINY26-16PC	DIP-20	8-bit MCU,	16MHz 2	kB flash		2.49	2.11
248225CH	ATTINY26-16SI	SOIC-20	8-bit MCU,	16MHz 2	kB flash		2.59	2.25
248233CH	ATTINY28L-4PC	DIP-28	8-bit MCU,	4MHz 2kl	B flash		2.25	1.88
248348CH	ATMEGA8515-16JI	PLCC-44	8-bit MCU,	16MHz 8	kB flash		5.19	4.52
323141CH	ATMEGA8515-16PC	DIP-40	8-bit AVR I	MCU, 16N	1Hz w/ 8	kB prog flas	h 4.59	3.40
168866CH	AT89C1051-24PC	DIP-20	8-bit MCU,	24MHz 1	kB flash	mem	2.65	2.15
168874CH	AT89C2051-24PC	DIP-20	8-bit MCU,	24MHz 2	kB flash	mem	2.49	2.39
265332CH	AT89C2051-12PC	DIP-20				MCU mem.		
204089CH	AT89C4051-24PC					em. 8-bit		1.69
323109CH	AT89C4051-24SC	SOIC-20	8-bit MCU,	24MHz 4	kB flash	mem	2.05	1.51
168911CH	AT89C51-24JC	PLCC-44						
168903CH	AT89C51-24PC	DIP-40	8-bit MCU,	24MHz 4	kB flash	memory	4.49	3.99
168920CH	AT89C52-24PC	DIP-40	8-bit MCU,	24MHz 8k	B flash n	nemory	3.39	2.79
220871CH	AT89S52-24JI	PLCC-44	8-bit MCU,	8kB prog	ammabl	e flash	3.99	3.69
323117CH	AT89S53-24JI	PLCC-44	8-bit MCU,	24MHz 1.	2kB flas	h mem	4.85	3.86
168946CH	AT89C55WD-24PC	DIP-40	8-bit MCU,	24MHz 20	kB flash	memory	6.99	6.79
323125CH	AT89S8252-24JI	PLCC-44	8-bit MCU,	24MHz 8	kB flash	mem	4.85	3.63
204097CH	AT89S8252-24PC	DIP-40	8-bit MCU, 24	MHz 8kB fla	sh mem. 2	kb eeprom	4.69	3.69
204100CH	AT90S1200-12PC	DIP-20	20 AVR 8-bit	RISC MCU,	12MHz 11	kB prog. flash.	2.39	1.99
	AT90S1200A-12SC	SOIC-20				prog. flash		
	AT90S2313-10PC					prog. flash		
	AT90S2313-10SI					prog. flash		
	AT90S2323-10PC					prog. flash .		
	AT90S2323-10SI					prog. flash		
	AT90S2343-10PC	DIP-8				prog. flash		
	AT90S2343-10SI					prog. flash		
204126CH	AT90S8515-8PC	DIP-40	8-bit AVR I	MCU, 8MF	łz 8kB p	rog. flash	8.85	7.95

AND DESCRIPTION	a ivalishmenta	IVII	o o o o i i i o i o i o i o i	3.	OF	Section.
Part No.	Product No.	Pkg.	Description	1	10	100
248663CH	MSP430F1121AIPW	SSOP-20	MCU, flash 8MHz 8k ROM, 15 I/O	\$3.55	\$3.45	\$3.09
248680CH	MSP430F123IPW	SSOP-28	MCU, flash 8MHz 8k ROM, 15 I/O	4.79	4.69	4.25

Microcontrollers

### **Get PICky, Save More Time!**

While we all know that products like the PIC microcontroller have greatly simplified the development of embedded applications, we're always looking for quicker ways to get the job done.

Reference designs, app notes and software snippets all help shave precious time from the development cycle. And while you're probably already using reference designs and app notes, you're probably not fully aware of the software support available.

Before you spec your next project, be sure to google "PIC"

software". You'll be surprised at the amount of software that is added to the public domain on a weekly basis. And the breadth of software is equally amazing. Whether you need a supporting RTOS or a thermocouple transform, you can be sure that in very little time, you'll find code snippets that will save you a great deal of development and debugging time.

Practical Practices
Money Saving Tips for the Engineer



For detailed specs, visit www.Jameco.com/rabbit

### The Rabbit 3000 Microprocessor

The new Rabbit 3000 is a high-performance, low-EMI microprocessor designed specifically for embedded control, communications, and Ethernet connectivity. The 8-bit Rabbit 3000 out performs most 16-bit processors without losing the efficiency of an 8-bit architecture. Extensive integrated features and glueless architecture facilitate rapid hardware design, while a C-friendly instruction set promotes efficient development of even the most complex applications.

All development kits come complete with microprocessor core module, prototyping board, Dynamic C\* development software with documentation on CD-ROM, serial cable for programming and debugging, getting started manual and AC adapter.

Shared Features of the RCM3000 RabbitCore™ Series

• EMI Reduction: spectrum spreader for reduced EMI (radiated emissions)

- Serial Rate: max. asynchronous burst rate = CLK/8
- Backup battery: connection for user-supplied battery (to support RTC and SRAM)
- Shared interface: permits use as master or intelligent peripheral with Rabbit-based or other master controller
- Real-time clock: battery backable
- · Watchdog: yes
- Timers: ten 8-bit timers (six cascadable from the first, three reserved for
- internal peripherals), and one 10-bit timer with 2 match registers Pulse-width modulation: 8-bit free running counter and four 10-bit
- pulse-width registers
- Input capture: 2-channel input capture can be used to time input signals from various port pins
- Quadrature recorder: 2-channel quadrature decoder accepts inputs from external incremental encoder modules

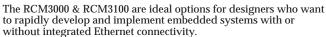
#### RCM3000 & 3100 General Purpose Development Kits

#### RCM3000 RabbitCoreTM 10Base-T Development Kit

The RCM3000 RabbitCore™ with 52 I/O lines is the most powerful and feature-packed 10Base-T Ethernet microprocessor core module.

#### RCM3100 RabbitCore™ General **Purpose Development Kit**

The RCM3100 RabbitCore™ with 54 I/O lines is ideal for non-Ethernet designs that need powerful embedded performance and a small footprint.



Both kits include the built-in RabbitCore™ low-EMI feature, including a clock spectrum spreader to help designers eliminate the kind of emissions-related problems that frequently derail tight development schedules. Additional features include a battery-backed real-time clock, glueless memory and I/O interfacing, a fully enabled slave port and an alternate I/O bus, which can be configured for 8 data lines and 6 address lines. Pin compatibility helps designers implement costeffective 3.3V Ethernet and non-Ethernet systems without redesign.

Part No.	Description	Weight	Price
320733CH	RCM3000 ethernet enabled development kit	2.0 lbs	\$294.99
320741CH	RCM3100 general purpose development kit	2.0 lbs	226.95

See page 252-253 for **Ethernet Starter** and Microprocessor Starter Kits.



320733CH

### RCM3200 10/100Base-T Development Kit

The RCM3200 RabbitCore™ microprocessor core module is a great choice for designers who want to rapidly implement embedded systems that require a fully integrated 10/100Base-T Ethernet connection. Additional features include a battery-backed real-time clock, glueless I/O interfacing,



#### RCM3300 & 3360 Flash Development Kits

#### The RCM3300 — Serial Flash Kit

The RCM3300 RabbitCore™ microprocessor core module is ideal for designers who want to rapidly develop serial Flash into their embedded application. The RCM3300 offers 8MB of serial flash for data logging and file storage purposes.



The RCM3360 RabbitCore™ microprocessor core module presents a new form of embedded flexibility removable xD-Picture Cards. Supports 16MB of on board NAND Flash as well as memory cards of up to 128MB. The RabbitCore is perfect for large data applications requiring low-power operation.





Part No.	Description	Weight	Price
321082CH	RCM3300 serial flash development kit	2.0 lbs	\$283.95
321613CH	RCM3360 NAND flash development kit	2.0 lbs	378.95

Comparison Chart for Rabbit Semiconductor Development Kits					
Jameco Part No. Model No.	320733CH RCM3000	320741CH RCM3100	320979CH RCM3200	321082CH RCM3300	321613CH RCM3360
CPU Speed	29.4MHz	29.4MHz	44.2MHz	44.2MHz	44.2MHz
Ethernet	10Base-T, RJ-45, 2 LEDs	None	10/100Base-T, RJ-45, 3 LEDs	10/100Base-T, RJ-45, 3 LEDs	10/100Base-T, RJ-45, 3 LEDs
Flash Memory	512k (2 x 256kB)	512k (2 x 256kB)	512kB	512kB	512kB
SRAM	512kB	512kB	512kB program + 256kB data	512kB program + 512kB data	512kB program + 512kB data
Extended Memory	None	None	None	8MB Serial Flash	16MB NAND Flash Chip, xD Removable Flash Memory
General Purpose I/O	52 digital: 44 configurable, 4 fixed inputs, 4 fixed outputs	52 digital: 44 configurable, 4 fixed inputs, 4 fixed outputs	52 digital: 44 configurable, 4 fixed inputs, 4 fixed outputs	49 parallel digital: 43 configurable, 3 fixed inputs, 3 fixed outputs	52 parallel digital: 44 configurable, 4 fixed inputs, 4 fixed outputs
Analog Inputs	None	None	None	None	None
Additional Inputs	2 Startup mode, Reset	2 Startup mode, Reset	2 Startup mode, Reset	2 Startup mode, Reset	2 Startup mode, Reset
Additional Outputs	Status, Reset	Status, Reset	Status, Reset	Status, Reset	Status, Reset
External I/O	6 shared w/ I/O, 8 data, plus I/O Rd, I/O Wr	6 shared w/ I/O, 8 data, plus I/O Rd, I/O Wr	6 shared w/ I/O, 8 data, plus I/O Rd, I/O Wr	5 shared w/ I/O 8 data, plus I/O Rd, I/O Wr	5 shared w/ I/O 8 data, plus I/O Rd, I/O Wr
Serial Ports	Five 3.3V CMOS-compat. config. as asynchronous (with IrDA), 4 config. as clocked (SPI), 2 config. as SDLC/HDLC  Five 3.3V CMOS-compat. config. asynch.  Six 3.3V CMOS-compat.				(w/ IrDA), 4 config. clocked (SPI), 2 config.
Power	3.15 - 3.45VDC @ 150mA	3.15 - 3.45VDC @ 75mA	3.15 - 3.45V @ 255mA	3.15 - 3.45VDC @ 350mA	3.15 - 3.45VDC @ 350mA
Board Size	2.73" x 1.85" x 0.86"	1.85" x 1.65" x 0.55"	2.73" x 1.85" x 0.86"	2.73" x 1.85" x 0.86"	2.73" x 1.85" x 0.86"
Connectors	Two 2 x 17.2mm IDC headers	Two 2 x 17.2mm IDC headers	Two 2 x 17.2mm IDC headers	Two 2 x 17.2mm IDC headers	Two 2 x 17.2mm IDC headers
Included	RabbitCore™ module, developm	nent board with prototyping area, Dynan	nic C development system and docume	ntation on CD-ROM, serial cable, getting	g started manual, and AC adapter

## Development Kits (Continued)



For detailed specs, visit www.Jameco.com/rabbit

#### RCM3400 Development Kit

The RCM3400 is based on the low-EMI Rabbit 3000 CPU running at 29.4MHz, with 512kB Flash and 512kB SRAM on board. The development board features a 10/100BaseT Ethernet connection and can be used as a reference design in conjunction with Dynamic C®'s royalty-free TCP/IP software libraries included in the development kit. Additional features include 5 serial ports and 8 analog inputs with programmable gain - all in an extremely small footprint! Each RCM3400 comes with a pre-assigned MAC ID, allowing it to be Ethernet ready.



321058CH

321074CH/321630CH

Part No.	Description	Weight	Price
321031CH	RCM3400 analog development kit	2.0 lbs	\$378.95

#### RCM3600, 3700 & 3720 Combo Flash/10Base-T Kits

The RCM3600 and RCM3700/3720 RabbitCore™ development kits are the lowest priced Rabbit 3000 microprocessor based core modules designed for a wide variety of applications. Each is equipped with +5VDC tolerant I/O, quadrature encoder inputs, PWM outputs, and pulse capture and measurement capabilities.

#### **Design Advantages:**

- · Ready-made platform for fast time-to-market; up to 3 months design integration time savings
- Exceptionally fast performance for math, logic, I/O
- Dynamic C® development environment for real-time development & debugging

Part No.	Description	Weight	Price
321058CH	RCM3600 above without ethernet	2.0 lbs	\$226.95
321074CH	RCM3700 10Base-T enabled, 512kB SRAM kit	2.0 lbs	283.95
321630CH	RCM3720 10Base-T enabled, 256kB SRAM kit	2.0 lbs	188.95

### **Commercial Customers**

Open an account with us to consolidate your monthly billing and save time.

### GSM/GPRS and M2M Application Kits

Color Code Legend

321197CH

MEW

Sale Lower\$ QtySave

This kit provides all the tools necessary to sample and develop applications that combine a Rabbit-based control device with a GSM/GPRS modem. The libraries and sample programs allow for a device connected to the cellular network to send SMS (text) messages to a RabbitCore Module (RCM) that can interpret messages as commands and in turn execute control functions. The RCM can also send/ receive GPRS email wirelessly to/from any PC, GSM device, or cell phone. The LCD/keypad module included incorporates a menu system that provides for an easy interface to read or send text messages and email.

#### **Application Kit Highlights**

- Hardware/Software for wireless RCM communication and control via GPRS/GSM
- GUI & Keypad configuration menu system
- Royalty-free TCP/IP stack in source code
- Sample programs/libraries for generic modem operation
- Fully integrated software: compiler, editor and debugger for control applications

	• •		
Part No.	Description	Weight	Price
321584CH	GSM/GPRS app. kit w/ Enfora modem	2.0 lbs	\$616.55
321197CH	Machine to Machine (M2M) kit w/ Wavecom modem	2.0 lbs	663.95

### Secure Embedded Web Application Kit

This kit provides optimized software development tools to easily build secure web interfaces for your new and existing applications. Built around the RCM3700 RabbitCore, the Kit offers Secure Socket Layer (SSL), which implements a 128-bit lock and key solution to encrypt data transfers. Software bundles (RabbitWeb, FAT File System and Secure Socket Layer) included enable rapid development of secure web browser interfaces for



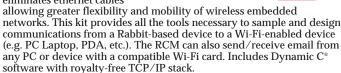
Imagine Tools Microprocessor and Ethernet Starter Kits, see pages 252 - 253.

Comparison Chart for Rabbit Semiconductor Development Kits					
Jameco Part No.	321031CH	321058CH	321074CH	321630CH	
Model No.	RCM3400	RCM3600	RCM3700	RCM3720	
CPU Speed	29.4MHz	22.1MHz	22.1MHz	22.1MHz	
Ethernet	10/100Base-T, MAC ID installed	None	10Base-T, RJ-45	10Base-T, RJ-45	
Flash Memory	512kB	512kB	512kB	512kB	
SRAM	512kB	512kB	512kB	256kB	
Extended Memory	None	None	1MB Serial Flash	1MB Serial Flash	
General Purpose I/O	47 digital: 41 configurable, 3 fixed inputs, 3 fixed outputs	33 parallel digital: 31 configurable, 2 fixed outputs	33 parallel digital: 31 configurable, 2 fixed outputs	33 parallel digital: 31 configurable, 2 fixed outputs	
Analog Inputs	8-channels single-ended (11-bit) or 4-channels differential (12-bit)	None	None	None	
Additional Inputs	2 Startup mode, Reset In, CONVERT	Reset	Reset	None	
Additional Outputs	Status, Reset, BVREF	None	None	None	
External I/O	6 address (shared with I/O), 8 data, plus I/O Rd, I/O Wr	5 address (shared w/ I/O), 8 data, plus I/O Rd, I/O Wr	5 address (shared w/ I/O), 8 data, plus I/O Rd, I/O Wr	5 address (shared w/ I/O), 8 data, plus I/O Rd, I/O Wr	
Serial Ports	5 CMOS-compatible: 4 configurable as asynchronous (with IrDA), 3 as clocked serial (SPI), and 2 as SDLC/HDLC with IrDA), 1 asynchronous serial port (programming), support for MIR/SIR IrDA transceiver  Support for MIR/SIR IrDA transceiver  Support for MIR/SIR IrDA transceiver				
Power	3.0-3.45VDC @ 97mA (29.4MHz); 2.8-3.45VDC @ 57mA (14.7MHz)	4.75-12.6VDC @ 60mA (22.1MHz); 4.75-12.6VDC @ 38mA (11.06MHz)	4.75-5.25VDC @ 100mA (22.1MHz); 4.75-5.25VDC @ 78mA (11.06MHz)	4.75-5.25VDC @ 100mA (22.1MHz); 4.75-5.25VDC @ 78mA (11.06MHz)	
Board Size	1.37" x 1.16" x 0.31"	2.10" x 1.20" x 0.62"	2.95" x 1.20" x 0.85"	2.95" x 1.20" x 0.85"	
Connectors	Two 2 x 17 (1.27mm)	One 2 x 20, 0.10" IDC header	One 2 x 20, 0.10" IDC header	One 2 x 20, 0.10" IDC header	
Included	RabbitCore™ module, development board with protol	typing area, Dynamic C <sup>®</sup> development systen	n and documentation on CD-ROM, serial cable,	getting started manual, and AC adapter	

#### Wi-Fi Application Kit

Jumpstart your wireless application design with a complete application kit. Integrating Wi-Fi (IEEE 802.11b) with a RabbitCore™ Development Kit, embedded system integrators can now enable a wireless embedded system.

Wireless connectivity eliminates ethernet cables



Includes a Linksys Wi-Fi card, RCM3100 microprocessor core module, prototyping board, Dynamic C $^\circ$  development system and complete documentation on CD-ROM, serial cable for programming and debugging, 10-pin DB15 Conversion Cable, manuals and AC adapter (U.S./Canada only).

#### **Applications**

- Wireless automation and control
- · Convenient data and event logging
- Instrumentation monitoring

Part No.	Description	Weight	Price
321681CH	Wi-Fi Application Kit	2.0 lbs.	\$568.95

#### 30-Day Money-Back Guarantee

If you're not satisfied with your purchase, simply return the product within 30 days for a refund or exchange. Details on page 258.

#### Multi-Port Serial to Ethernet Kit

Enable your customers to monitor your sensors from their desktop. The Rabbit Serial-to-Ethernet Kit provides the hardware and software necessary for sensors and other serial devices to communicate via a LAN or other network. This kit allows you to simultaneously connect several serial devices to a network. Implementation of the optional RabbitWeb software module makes it simple to web-enable your application to allow monitoring and control of serial devices via the internet or intranet. Other optional software modules help to secure your data through SSL and encryption.



Sample application programs guide you through serial to Ethernet conversion. This kit also includes a prototyping board, Dynamic C development environment including a royalty-free TCP/IP stack with source code, sample applications, temperature sensor demoboard, required cables, and assorted accessories. The sample applications highlight functionality such as RS-232 to Ethernet conversion, RS-485 to ethernet conversion, ethernet to serial conversion, data gathering from serial devices such as the included temperature sensor demoboard and a digital voltmeter (not included), and web-enabling applications. Features

- · Serial to ethernet applications for: digital voltmeter and temperature sensor reader and binary and hexadecimal ASCII

  Royalty-free TCP/IP stack with source code
- Design Advantages
- · Configuration menu system
- Minimal ethernet experience required 3 step setup Software compatible with other Rabbit-based products

Part No.	Description	Weight	Price
321656CH	Multi-Port serial to ethernet app. kit	2.0 lbs	\$375.25

#### PARALLAX 7 **BASIC Stamps**

BASIC Stamps are small computers using a variation of BASIC called PBASIC. They are ideal for controller apps including robotics, radio-controlled interface of a digital camera, industrial pallet stacker, health monitoring systems, and much more. The BS1-IC has 8 I/O lines, while the BS2-IC has 16 I/O lines.



130892CH See page 188 for Serial LCD Modules

Each can be connected directly to buttons, LEDs, registers, and many other TTL level devices. Both allow you to store data in the EEPROM before downloading a BASIC program.

Includes: Embedded BASIC plus instruction sets: basic interpreter, EEPROM (non-volatile), a resonator and 5V regulator

and ov regulator			
Specifications:	127693CH	1308920	CH
EEPROM	256 bytes	2048 byte	es
RAM	16 bytes	32 bytes	
Cur. Draw @ 5V	2mA run/20µA	8mA run/	/100μΑ
Microcontroller	PIC16C56	PIC16C5	7
Program speed	2000/sec.	4000/sec.	
# of I/O Pins	8	16 + 2 serial	
Package	14-pin SIP	24-pin DI	IP
Volts Required	5-15VDC	5-15VDC	
Size	1.4"L x 0.4"W	1.2"L x 0.	.6"W
Part No. Paralla	ıx No.	1	10
127693CH BS1-IC	`	\$28.95	\$28.29

### PARALLAX ?

### **BASIC Stamp 2P** Modules

184920CH

In addition to the BS2-SX (pg 15) features, these modules include commands for HD44780 compatible LCDs, Dallas Semiconductor 1-wire and Philips I2C parts.

- Voltage requirements: 5-12VDC
- Program execution speed: 12,000 instructions/sec.
- RAM size: 38 bytes (12 I/O, 26 variable)
- Scratch pad RAM: 128 bytes
- EEPROM program size: 2k x 8, 4,000 instructions
- Current draw @ 5V: 40mA run; 400µA sleep **184911CH:** Number of I/O pins: 16 + 2 serial

184920CH: Number of I/O pins: 32 + 2 serial

Part No.	Parallax No. 1	10
184911CH	BS2P24-IC 24-pin \$78.95	\$70.95
184920CH	BS2P40-IC 40-pin <b>87.95</b>	79.95

43.95

### FARALLAX & 50MHz BASIC Stamp 2SX Module

High-speed version of BS2-IC.

- Volts required: 5-12 VDC
- · RAM size: 32 bytes
- Scratch pad RAM: 64 bytes
- Microcontroller: Ubicom SX28AC
- Number of I/O pins: 16 + 2 serial
- EEPROM program size: 8 x 2k bytes, 4,000 instr.
- Program execution speed: 10,000 instructions/sec. Current draw @ 5V: 60mA run; 200µA sleep
- Part No. Parallax No. 10 159775CH BS2SX-IC 24-pin ...... \$58.95 \$52.95

#### **BS2E-IC Basic Stamp** PARALLAX ? Module

The BS2E-IC runs at the same speed as BASIC Stamp 2, but has the RAM and EEPROM size benefits of the BS2-SX, without the speed and power consumption. Ideal for those who use the BS2 and would like more variable or program space. Programmed in Windows®.

- EEPROM (program) size: 2k x 8, ~ 4,000 instructions
- RAM: 32 bytes (6 I/O, 26 variable)
- Current draw @ 5V: 20mA run/100uA sleep
- · Microcontroller: Scenix SX28AC
- · Program speed: 4,000 instructions / sec
- Number of I/O pins: 16 + 2 dedicated serial
  Voltage requirement: 5-12VDC Package: DIP-24

Part No.	Parallax No.	1	10
283047CH	BS2E-IC	\$53.95	\$51.95

### PAPALLAX & BASIC Stamp 2 0EM Kit

A through-hole version of the popular BASIC Stamp modules.

- · 20-pin SIP, standard 0.1" spacing
- · PC board includes labeled component locations with visible traces between parts
- PBASIC interpreter and EEPROM are socketed to allow for replacement
- Programmed using PBASIC DOS or Windows®

Includes: PBASIC interpreter, EEPROM, resonator, DB-9, resistors and transistors

Part No.	Parallax No.	1	10
183071CH	27291 BASIC® Stamp 2 kit	. \$44.95	\$42.95



130892CH BS2-IC ......48.95

#### Stamp Microcontrollers













#### 80C52-BASIC Microcontroller

The 80C52-BASIC chip is a custom-masked microcontroller with a fullfeatured 8k-byte ROM-resident BASIC-52 interpreter. 256 x 8-bit RAM

Hardware: • On-chip oscillator & clock circuit • Operates DC to 12MHz

Software: • Full BASIC interpreter in ROM on a single chip

"Stand-alone" software development

Interrupts can be handled by BASIC or Assembly Language

Part No.	Product No.	Description	1	10	100
125647CH	80C52BASIC	40-pin CPU 8-bit CMOS w/ BASIC interpreter	\$32.09	\$28.89	\$25.99

PÆAL	<u>L</u> AX 7.	50MIPS SX Microcontroller		
Part No.	Parallax No.	Description 1	10	100
162931CH	SX28AC/DP	DIP-28 50MIPS SX microcontroller \$4.99	\$4.89	\$4.79
283063CH	SX48BD	PQFP-48 flash RAM 7.29	7.25	7.19





### Single-Chip Voice Record/Playback Devices

#### 10 to 120 Second Durations (28-pin DIP)

- · Manual switch or microprocessor controllable
- · Directly cascadable for longer durations
- Fully addressable to handle multiple messages
- On-chip automatic gain control (AGC) and clock source
- 100k record cycles (typical)
- 1 µA standby current (typical)
- Typical 100k record cycles, 1µA standby current, and 100 year message retention
- Single voltage operation: +5V (4.5V to 5.5V operating range)
- · Playback can be edge or level-activated
- 100-year message retention (typical)

Part No.	Product No.	Description 1	10	50
141671CH	ISD1110P	Voice record/playback (10 sec.)\$5.99	\$5.75	\$5.49
107334CH	ISD1420P	Voice record/playback (20 sec.) 5.39	5.09	4.89
120643CH	ISD2560P	Voice record/playback (60 sec.) 9.19	8.59	7.79
120660CH	ISD2590P	Voice record/playback (90 sec.) 14.09	12.29	11.69
141655CH	ISD25120P	Voice record/playback (120 sec.) 14.09	11.49	8.45

### **PALs and GALs**





			(11111111		Salder.
Part No.	Cross Ref.	Pkg.	Description 1	10	100
27748CH	N82S100	DIP-28	16 x 48 x 8 field-prog. logic array, 3-st. <b>\$14.95</b>	\$13.49	\$12.15
28020CH	PAL16L8	DIP-20	Octal 16-input AND-OR-INVERT gate array 2.25	1.75	1.66
88399CH	16V8-10*	DIP-20	10ns 64 x 32 AND array 2.59	2.35	2.10
37452CH	16V8-15*	DIP-20	15ns 64 x 32 AND array 1.39	1.25	1.12
37461CH	16V8-25*	DIP-20	25ns 64 x 32 AND array 1.25	1.09	.99
88292CH	20V8-10**	DIP-24	10ns 64 x 40 AND array 1.85	1.60	1.43
38658CH	20V8-15**	DIP-24	15ns 64 x 40 AND array 1.55	1.25	1.15
38666CH	20V8-25**	DIP-24	25ns 64 x 40 AND array 1.69	1.49	1.39
235352CH	20VP8-25LJ	PLCC-28	25ns 64 x 40 AND array 3.79	2.89	2.39
123801CH	22V10-10	DIP-24	10ns 132 x 44 AND array 5.49	4.99	4.49
39159CH	22V10-15	DIP-24	15ns 132 x 44 AND array 4.49	3.95	3.55
39167CH	22V10-25	DIP-24	25ns 132 x 44 AND array 3.99	3.49	3.09

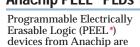
#### GALs are electrically erasable PLDs that can be used in place of numerous PALs

- Replaces PALs: 10H8, 10L8, 10P8, 12H6, 12L6, 12P6, 14H4, 14L4, 14P4, 16H2, 16H8, 16L2, 16L8, 16P2, 16P8, 16R4, 16R6, 16R8, 16RP4, 16RP6, 16RP8
- Replaces PALs: 14H8, 14L8, 14P8, 16H6, 16L6, 16P6, 18H4, 18L4, 18P4, 20H2, 20H8, 20L2, 20L8, 20P2, 20P8, 20R4, 20R6, 20R8, 20RP4, 20RP6, 20RP8



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PEELs offer the convenience of simple and complex logic reprogrammability.

† I = Industrial Temp range: -40°C to +85°C; C = Commercial Temp. range: 0 to +70°C

Part No.	Draduat No *	, ,	Cnaad						. † 4		100
	Product No.*	Pkg.		Icc						10	100
	16CV8J-25	PLCC-20	25ns	12mA	10	8	5		\$1.19	\$1.07	\$.99
	16CV8P-25	DIP-20	25ns	12mA	10	8	5	С	1.19	.82	.74
	16CV8S-25	PLCC-20	25ns	12mA	10	8	5	С	1.59	1.08	.97
	18CV8J-10	PLCC-20	10ns	10mA	10	8	5	С	2.75	1.85	1.65
	18CV8J-15	PLCC-20	15ns	10mA	10	8	5	С	1.99	1.69	1.49
	18CV8J-25	PLCC-20	25ns	10mA	10	8	5	С	1.89	1.39	1.25
313795CH	18CV8JI-15	PLCC-20	15ns	10mA	10	8	5	I	2.99	1.99	1.82
313066CH	18CV8JI-25	PLCC-20	25ns	10mA	10	8	5	I	2.49	1.69	1.55
314801CH	18CV8P-7	DIP-20	7ns	42mA	10	8	5	С	3.05	2.05	1.85
314721CH	18CV8P-10	DIP-20	10ns	42mA	10	8	5	С	2.69	1.79	1.65
314739CH	18CV8PI-10	DIP-20	10ns	42mA	10	8	5	- 1	3.19	2.15	1.95
314659CH	18CV8P-15L+	DIP-20	15ns	25mA	10	8	5	С	1.85	1.59	1.45
105953CH	18CV8P-25	DIP-20	25ns	25mA	10	8	5	С	2.25	1.99	1.79
313074CH	18CV8PI-25L+	DIP-20	25ns	10mA	10	8	5	- 1	1.89	1.59	1.40
314747CH	18CV8S-10	SOIC-20	10ns	42mA	10	8	5	С	2.55	1.71	1.69
314077CH	18CV8S-15L+	SOIC-20	15ns	25mA	10	8	5	С	2.55	1.69	1.55
313242CH	18CV8S-25	SOIC-20	25ns	10mA	10	8	5	С	2.15	1.45	1.29
313251CH	18CV8SI-25	SOIC-20	25ns	10mA	10	8	5	- 1	2.59	1.69	1.55
313349CH	18CV8T-25L+	TSSOP-20	25ns	10mA	10	8	5	С	2.45	1.65	1.49
	18CV8ZJ-25	PLCC-20	25ns	10uA	10	8	5	С	3.79	2.55	2.29
	18CV8ZJI-25	PLCC-20	25ns	10uA	10	8	5	i	4.59	3.09	2.79
	18CV8ZP-25L+		25ns	10uA	10	8	5	С	3.65	2.45	2.19
	18CV8ZPI-25	DIP-20	25ns	10uA	10	8	5	1	4.39	2.95	2.59
	18CV8ZS-25	SOIC-20	25ns	10uA	10	8	5	C	3.75	2.49	2.29
	18LV8ZJ-25	PLCC-20	25ns	5uA	10	8	3	С	4.19	2.84	2.55
	18LV8ZP-25	DIP-20	25ns	5uA	10	8	3	С	3.99	2.69	2.39
	18LV8ZT-25	TSSOP-20		5uA	10	8	3	С	4.35	2.95	2.65
	18LV8ZJI-35	PLCC-20	35ns	5uA	10	8	3	I	4.99	3.39	3.05
	18LV8ZPI-35	DIP-20	35ns	5uA 5uA	10	8	3	i	4.79	3.19	2.89
						8					
	18LV8ZSI-35	SOIC-20	35ns	5uA	10	8	3		4.89	3.29	2.99
	18LV8ZTI-35	TSSOP-20		5uA	10		3		5.19	3.49	3.15
	22CV10AJ-7	PLCC-28	7ns	50mA	12	10	5	С	4.45	3.35	2.55
	22CV10AJ-10		10ns	50mA	12	10	5	С	3.65	2.95	2.25
	22CV10AJ-15	PLCC-28	15ns	35mA	12	10	5	С	3.45	2.59	1.99
	22CV10AJ-25	PLCC-28	25ns	18mA	12	10	5	С	3.35	2.49	1.89
	22CV10AP-7	DIP-24	7ns	50mA	12	10	5	С	4.29	3.19	2.45
	22CV10AP-10L+		10ns	50mA	12	10	5	С	2.85	2.45	2.09
	22CV10AP-15L+		15ns	35mA	12	10	5	С	3.39	2.55	1.95
		DIP-24	25ns	5uA	12	10	5	С	2.59	2.35	2.05
	22CV10API-25		25ns	18mA	12	10	5	I	2.85	2.45	1.99
	22CV10AZJ-25		25ns	10uA	12	10	5	С	3.75	2.85	2.39
	22CV10AZJI-25		25ns	10uA	12	10	5	I	6.85	5.19	3.95
	22CV10AZP-25		25ns	10uA	12	10	5	С	5.35	3.89	3.09
	22CV10AZT-25	TSSOP-24	25ns	10uA	12	10	5	С	5.79	4.39	3.35
315002CH	22CV10AZTI-25	TSSOP-24	25ns	10uA	12	10	5	I	6.95	5.29	4.05
315011CH	22LV10AZJ-25	PLCC-28	25ns	5uA	12	10	3	С	6.15	4.65	3.55
315029CH	22LV10AZP-25	DIP-24	25ns	5uA	12	10	3	С	5.89	4.45	3.39
315045CH	22LV10AZT-25	TSSOP-24	25ns	5uA	12	10	3	С	6.29	4.79	3.65
316857CH	PA7540P-15	DIP-24	15ns	55mA	2	20	5	С	8.09	6.09	4.69
316902CH	PA7540J-15	PLCC-28	15ns	55mA	2	20	5	С	8.25	6.19	4.75
317032CH	PA7536J-15	PLCC-28	15ns	45mA	14	12	5	С	7.29	5.49	4.19
317075CH	PA7572P-20	DIP-40	20ns	50mA	14	24	5	С	8.99	6.79	5.19
317104CH	PA7572J-20	PLCC-44	20ns	50mA	14	24	5	С	8.99	6.79	5.19

For a device cross reference list, please go to our website and simply enter any of the above part numbers in our search engine.



<sup>+</sup> Lead-free

#### 74AC(T)XXX Advanced CMOS Logic Competitive Cross Reference Guide

Family	Package	TI	Jameco	Fairchild	On Semi	ST Micro	Philips	Toshiba
AC(T)	DIP	SN74AC(T)XXXN	74AC(T)XXXN	74AC(T)XXXPC	MC74AC(T)XXXN	74AC(T)XXXB	74AC(T)XXXN	TC74AC(T)XXXP
	DIP	CD74AC(T)XXXE	74AC(T)XXXN	74AC(T)XXXPC	MC74AC(T)XXXN	74AC(T)XXXB	74AC(T)XXXN	TC74AC(T)XXXP
	SOIC	SN74AC(T)XXXD/DW	74AC(T)XXXM	74AC(T)XXXSC	MC74AC(T)XXXD/DW	74AC(T)XXXM	74AC(T)XXXD	TC74AC(T)XXXFN/FW
	SOIC	CD74AC(T)XXXM	74AC(T)XXXM	74AC(T)XXXSC	MC74AC(T)XXXD/DW	74AC(T)XXXM	74AC(T)XXXD	TC74AC(T)XXXFN/FW

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coluitii,								s family, you are guaranteed to n Semi, Philips, ST and/or Tos			
			TEXAS	INSTRUMENTS	<ul><li>Save 6-</li></ul>	10%		ivational, or	* Prepackaged: order in inci		
Base No.	Package	Description	Part No.	T.I. Product No.	1	10	100	Part No.	Cross Ref.		
74AC00	SOIC-14	Quad 2-input NAND gate	263880CH	SN74AC00D	*	\$.16	\$.156	263871CH	74AC00M	\$.15	\$.14
74AC00	DIP-14	Quad 2-input NAND gate	256858CH	SN74AC00N	28	.26	.18	211801CH	74AC00N	.20	.15
74AC02	SOIC-14	Quad 2-input NOR gate	264090CH	SN74AC02M	26	.23	.17	264081CH	74AC02M	.21	.157
74AC02	DIP-14	Quad 2-input NOR gate	256891CH	CD74AC02E	29	.26	.24	211810CH	74AC02N	.17	.13
74AC04	SOIC-14	Hex inverter	264111CH	SN74AC04D	*	.17	.15	264102CH	74AC04M		.13
74AC04	DIP-14	Hex inverter	256903CH	SN74AC04N	26	.25	.202	211828CH	74AC04N\$1.25 .2	.20	.15
74AC08	SOIC-14	Quad 2-input AND gate	264137CH	SN74AC08D	26	.23	.18	264129CH	74AC08M	.21	.157
74AC08	DIP-14	Quad 2-input AND gate	256911CH	SN74AC08N	41	.35	.26	211836CH	74AC08N	.17	.13
74AC10	SOIC-14	Triple 3-input NAND gate	264153CH	SN74AC10D	26	.23	.175	264145CH	74AC10M	.21	.157
74AC10	DIP-14	Triple 3-input NAND gate	256920CH	SN74AC10N	41	.35	.25	238887CH	74AC10N3	.26	.20
74AC11	SOIC-14	Triple 3-input AND gate	264170CH	SN74AC11D	32	.26	.18	264161CH	74AC11M3		.17
74AC11	DIP-14	Triple 3-input AND gate	256938CH	SN74AC11N	32	.26	.18	238895CH	74AC11N3	2 .261	1 .176
74AC14	SOIC-14	Hex inverter with Schmitt trigger input	264209CH	SN74AC14D	20	.17	.15	264196CH	74AC14M	.149	9 .13
74AC14	DIP-14	Hex inverter with Schmitt trigger input	261366CH	SN74AC14N	23	.21	.20	211844CH	74AC14N	.18	.13
74AC20	SOIC-14	4-input NAND gate	264233CH	CD74AC20M	26	.23	.18	264225CH	74AC20M	.21	.157
74AC20	DIP-14	4-input NAND gate	261382CH	CD74AC20N	39	.32	.22	238836CH	74AC20N3	.30	.22
74AC32	SOIC-14	Quad 2-input OR gate	264268CH	SN74AC32D	26	.23	.18	264241CH	74AC32M	.21	.16
74AC32	DIP-14	Quad 2-input OR gate	261391CH	SN74AC32N	41	.34	.25	211852CH	74AC32N	.18	.143
74AC74	SOIC-14	Dual D-type pos. edge-triggered flip-flop	264284CH	SN74AC74D	31	.26	.193	264276CH	74AC74M	.24	.17
74AC74	DIP-14	Dual D-type pos. edge-triggered flip-flop	261403CH	SN74AC74N	40	.34	.24	211861CH	74AC74N3	7 .30	.221
74AC86	SOIC-14	Quad 2-input exclusive OR gate	264305CH	SN74AC86D	20	.17	.14	264292CH	74AC86M	.149	9 .13
74AC86	DIP-14	Quad 2-input exclusive OR gate	261454CH	SN74AC86N	32	.26	.18	211879CH	74AC86N2	.26	.22
74AC109	SOIC-16	Dual JK positive edge triggered flip-flop						264313CH	74AC109M	.39	.29
74AC109	DIP-16	Dual JK positive edge triggered flip-flop	261462CH	CD74AC109E	47	.40	.29	238908CH	74AC109N	.37	.269
74AC125	SOIC-16	Quad buffer with 3-state outputs						264321CH	74AC125M4	.36	.27
74AC125	DIP-14	Quad buffer with 3-state outputs						238916CH	74AC125N	.329	9 .249
74AC138	SOIC-16	1 of 8 decoder/demultiplexer	264364CH	CD74AC138M	41	.34	.23	264348CH	74AC138M3	.31	.21
74AC138	DIP-16	1 of 8 decoder/demultiplexer	261471CH	CD74AC138E	46	.35	.27	211887CH	74AC138N	.329	9 .249
74AC139	SOIC-16	Dual 1 of 4 decoder/demultiplexer	264508CH	CD74AC139M	56	.43	.32	264495CH	74AC139M5	.39	.29
74AC139	DIP-16	Dual 1 of 4 decoder/demultiplexer	261500CH	CD74AC139E	49	.41	.29	238730CH	74AC139N4	.329	9 .249
74AC151	SOIC-16	Quad buffer with 3-state outputs						264516CH	74AC151M3	.32	.24
74AC151	DIP-16	Quad buffer with 3-state outputs	261526CH	CD74AC151E	46	.35	.26	238748CH	74AC151N	.32	.24
74AC153	SOIC-16	Dual 4-input multiplexer	264532CH	CD74AC153M	42	.36	.26	264524CH	74AC153M3	.32	.24
74AC153	DIP-16	Dual 4-input multiplexer	261534CH	CD74AC153E	49	.41	.29	238756CH	74AC153N4	.37	.27
74AC157	SOIC-16	Quad 2-input multiplexer	264559CH	CD74AC157M	41	.38	.34	264541CH	74AC157M	.32	.24
74AC157	DIP-16	Quad 2-input multiplexer	261542CH	CD74AC157E	47	.36	.27	238764CH	74AC157N	.32	.24
74AC161	SOIC-16	Synchronous presettable binary counter	264575CH	CD74AC161M	41	.37	.33	264567CH	74AC161M3	.27	.24
74AC161	DIP-16	Synchronous presettable binary counter	261551CH	CD74AC161E	46	.35	.26	238772CH	74AC161N5	.39	.294
74AC163	SOIC-16	Binary counter	264591CH	CD74AC163M	49	.41	.36	264583CH	74AC163M4	.37	.27
74AC163	DIP-16	Binary counter	261585CH	CD74AC163E	50	.38	.29	238781CH	74AC163N	.35	.27
74AC169	SOIC-16	4-stage synchronous bidirectional counter						265818CH	74AC169M6	.57	.47
74AC169	DIP-16	4-stage synchronous bidirectional counter						238799CH	74AC169N <b>.9</b>	.84	.77
74AC174	SOIC-16	HEX D-type flip-flop w/ master reset	264858CH	CD74AC174M	46	.35	.27	264840CH	74AC174M <b>.4</b>	.32	.24
74AC174	DIP-16	HEX D-type flip-flop w/ master reset	261593CH	CD74AC174E	50	.38	.29	238801CH	74AC174N	.35	.27
74AC175	SOIC-16	Quad D-type flip-flop	264874CH	CD74AC175M	46	.35	.26	264866CH	74AC175M <b>.4</b>	.32	.24
74AC175	DIP-16	Quad D-type flip-flop						238810CH	74AC175N5	.382	2 .295
74AC191	SOIC-16	Up/down counter w/ preset & ripple clock						264903CH	74AC191M 1.1	.98	.80
74AC191	DIP-16	Up/down counter w/ preset & ripple clock						238828CH	74AC191N8	.76	.61
74AC240	SOIC-20	Octal buffer/line driver w/ 3-state outputs	264971CH	SN74AC240DW	45	.36	.28	264938CH	74AC240M <b>.</b>	.33	.25
74AC240	DIP-20	Octal buffer/line driver w/ 3-state outputs	261614CH	SN74AC240N	32	.264	.239	211895CH	74AC240N3	.241	1 .218
74AC241	SOIC-20	Octal buffer/line driver w/ 3-state outputs	265543CH	SN74AC241DW	45	.36	.28	265535CH	74AC241M	.33	.25

<sup>†</sup> Note: TI now owns GE, Harris & RCA logic; Fairchild now owns National Semi logic; Philips now owns Signetics; and On Semi is also known as Motorola.



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OD         Part No.         Cross Ref.         1         10         100           65         238844CH         74AC241N         \$.41         \$.33         \$.25           265551CH         74AC244M         .41         .33         .25           211908CH         74AC245M         .41         .33         .25           211916CH         74AC245M         .41         .33         .25           211916CH         74AC245M         .49         .43         .35           238852CH         74AC251M         .49         .43         .35           238852CH         74AC251M         .44         .329         .249           265623CH         74AC253M         .44         .34         .25           238861CH         74AC253M         .42         .32         .24           265658CH         74AC257M         .38         .32         .25           238879CH         74AC257M         .38         .32         .25           238879CH         74AC273M         .51         .48         .45           211924CH         74AC273M         .51         .48         .45           211924CH         74AC299M         1.79         1.45         1.09 </th <th></th> <th>rvational, on</th> <th>ocm, r mips,</th> <th>31 ana/or 103m</th> <th>ba prout</th> <th>ici.</th>		rvational, on	ocm, r mips,	31 ana/or 103m	ba prout	ici.
265551CH       74AC244M       .41       .33       .25         211908CH       74AC244N       .33       .28       .21         265586CH       74AC245M       .41       .33       .25         211916CH       74AC245N       .\$-36       .33       .28       .21         265607CH       74AC251M       .49       .43       .35         238852CH       74AC251N       .44       .34       .25         238861CH       74AC253M       .44       .34       .25         238879CH       74AC253M       .42       .32       .24         265658CH       74AC257M       .38       .35       .35         238879CH       74AC257M       .38       .35       .35         265674CH       74AC273M       .51       .48       .45         211924CH       74AC273M       .40       .34       .26         265826CH       74AC299M       1.79       1.45       1.09         238924CH       74AC299M       1.35       1.25       1.05         265691CH       74AC373M       .40       .36       .32         265711CH       74AC374M       .30       .29       .25         2119	0	Part No.	Cross Ref.	1	10	100
33       28       21         265586CH       74AC245M       .41       .33       .25         211916CH       74AC245N       .\$36       .33       .28       .21         265607CH       74AC251M       .49       .43       .35         238852CH       74AC251N       .44       .34       .25         238861CH       74AC253M       .42       .32       .24         265658CH       74AC257M       .38       .32       .25         238879CH       74AC273M       .38       .32       .25         238879CH       74AC273M       .51       .48       .45         211924CH       74AC273M       .51       .48       .45         211924CH       74AC299M       1.79       1.45       1.09         238924CH       74AC299M       1.35       1.25       1.05         265691CH       74AC373M       .51       .48       .45         211932CH       74AC374M       .30       .29       .25         211941CH       74AC374M       .30       .29       .25         211941CH       74AC374M       .51       .43       .323         265851CH       74AC377M       .51 <td>6</td> <td>238844CH</td> <td>74AC241N</td> <td> \$.41</td> <td>\$.33</td> <td>\$.25</td>	6	238844CH	74AC241N	\$.41	\$.33	\$.25
265586CH       74AC245M       .41       .33       .25         211916CH       74AC245N       .\$-36       .33       .28       .21         265607CH       74AC251M       .49       .43       .35         238852CH       74AC251N       .44       .34       .25         238861CH       74AC253M       .42       .32       .24         265658CH       74AC257M       .38       .32       .25         238879CH       74AC273M       .38       .35       .33         265674CH       74AC273M       .51       .48       .35         211924CH       74AC273M       .40       .34       .26         265826CH       74AC299M       1.79       1.45       1.09         238924CH       74AC299M       1.35       1.25       1.05         265691CH       74AC373M       .51       .48       .45         211932CH       74AC373M       .51       .48       .45         211932CH       74AC374M       .30       .29       .25         211941CH       74AC374M       .51       .43       .323         265851CH       74AC377M       .51       .43       .323         26		265551CH	74AC244M	41	.33	.25
211916CH         74AC245N         \$-36         .33         .28         21           265607CH         74AC251M         .49         .43         .35           238852CH         74AC251N         .44         .329         .249           265623CH         74AC253M         .44         .34         .25           238861CH         74AC253N         .42         .32         .24           265658CH         74AC257N         .38         .35         .33           265674CH         74AC273M         .51         .48         .45           211924CH         74AC273N         .40         .34         .26           265826CH         74AC273N         .40         .34         .26           265826CH         74AC299M         1.79         1.45         1.09           238924CH         74AC299M         1.35         1.25         1.05           26581CH         74AC373M         .51         .48         .45           211932CH         74AC373M         .40         .36         .32           265711CH         74AC374M         .30         .29         .25           211941CH         74AC374M         .51         .43         .323      <	8	211908CH	74AC244N		.28	.21
265607CH       74AC251M       .49       .43       .35         238852CH       74AC251N       .44       .329       .249         265623CH       74AC253M       .44       .34       .25         238861CH       74AC253N       .42       .32       .24         265658CH       74AC257M       .38       .32       .25         238879CH       74AC273M       .51       .48       .45         211924CH       74AC273M       .51       .48       .45         211924CH       74AC273M       .40       .34       .26         265826CH       74AC299M       1.79       1.45       1.09         238924CH       74AC299M       1.35       1.25       1.05         265801CH       74AC373M       .51       .48       .45         211932CH       74AC373M       .40       .36       .32         265711CH       74AC374M       .30       .29       .25         211941CH       74AC374M       .51       .43       .323         265851CH       74AC377M       .66       .61       .54         242763CH       74AC377M       .871       .54       .46       .328         2		265586CH				.25
238852CH         74AC251N         .44         .329         .249           265623CH         74AC253M         .44         .34         .25           238861CH         74AC253N         .42         .32         .24           265658CH         74AC257M         .38         .32         .25           238879CH         74AC273M         .51         .48         .45           211924CH         74AC273N         .40         .34         .26           265826CH         74AC299M         1.79         1.45         1.09           238924CH         74AC299N         1.35         1.25         1.05           265691CH         74AC373M         .51         .48         .45           211932CH         74AC373M         .40         .36         .32           265711CH         74AC373M         .40         .36         .32           265711CH         74AC374M         .30         .29         .25           211941CH         74AC374M         .51         .43         .323           265851CH         74AC377M         .51         .43         .323           265851CH         74AC377N         \$71         .54         .46         .328		211916CH	74AC245N	\$.36 .33	.28	.21
265623CH       74AC253M       .44       .34       .25         238861CH       74AC253N       .42       .32       .24         265658CH       74AC257M       .38       .32       .25         238879CH       74AC257N       .38       .35       .33         265674CH       74AC273M       .51       .48       .45         211924CH       74AC273N       .40       .34       .26         265826CH       74AC299M       1.79       1.45       1.09         238924CH       74AC299N       1.35       1.25       1.05         265691CH       74AC373M       .51       .48       .45         211932CH       74AC373N       .40       .36       .32         265711CH       74AC374M       .30       .29       .25         211941CH       74AC374M       .51       .43       .323         265851CH       74AC377M       .66       .61       .54         242763CH       74AC377M       .871       .54       .46       .328         238941CH       74AC399N       1.85       1.69       1.52         265869CH       74AC521M       .96       .88       .76		265607CH	74AC251M	49	.43	.35
238861CH         74AC253N         .42         .32         .24           265658CH         74AC257M         .38         .32         .25           238879CH         74AC257N         .38         .35         .33           265674CH         74AC273M         .51         .48         .45           211924CH         74AC273N         .40         .34         .26           265826CH         74AC299M         1.79         1.45         1.09           238924CH         74AC299N         1.35         1.25         1.05           265691CH         74AC373M         .51         .48         .45           211932CH         74AC373N         .40         .36         .32           265711CH         74AC374M         .30         .29         .25           211941CH         74AC374M         .51         .43         .323           265851CH         74AC377M         .66         .61         .54           242763CH         74AC377M         .871         .54         .46         .328           238941CH         74AC399N         .185         1.69         1.52         .265869CH         74AC521M         .96         .88         .76 <t< td=""><td></td><td>238852CH</td><td>74AC251N</td><td>44</td><td>.329</td><td>.249</td></t<>		238852CH	74AC251N	44	.329	.249
265658CH         74AC257M         .38         .32         .25           238879CH         74AC257N         .38         .35         .33           265674CH         74AC273M         .51         .48         .45           211924CH         74AC273N         .40         .34         .26           265826CH         74AC299M         1.79         1.45         1.09           238924CH         74AC299N         1.35         1.25         1.05           265691CH         74AC373M         .51         .48         .45           211932CH         74AC373N         .40         .36         .32           265711CH         74AC374M         .30         .29         .25           211941CH         74AC374M         .51         .43         .323           265851CH         74AC377M         .66         .61         .54           242763CH         74AC377M         .871         .54         .46         .328           23891CH         74AC399N         1.85         1.69         1.52         .265869CH         74AC521M         .96         .88         .76           238959CH         74AC521M         .96         .88         .76         .55		265623CH	74AC253M	44	.34	.25
238879CH       74AC257N       .38       .35       .33         265674CH       74AC273M       .51       .48       .45         211924CH       74AC273N       .40       .34       .26         265826CH       74AC299M       1.79       1.45       1.09         238924CH       74AC299N       1.35       1.25       1.05         265691CH       74AC373M       .51       .48       .45         211932CH       74AC374M       .30       .29       .25         211941CH       74AC374M       .51       .43       .323         265851CH       74AC377M       .66       .61       .54         242763CH       74AC377M       .66       .61       .54         242763CH       74AC379N       1.85       1.69       1.52         265869CH       74AC399N       1.85       1.69       1.52         265869CH       74AC521M       .96       .88       .76         238959CH       74AC540M       .75       .67       .55         238975CH       74AC540M       .75       .67       .55         238975CH       74AC541M       .75       .67       .55         238975CH		238861CH	74AC253N		.32	.24
265674CH         74AC273M         .51         .48         .45           211924CH         74AC273N         .40         .34         .26           265826CH         74AC299M         1.79         1.45         1.09           238924CH         74AC299N         1.35         1.25         1.05           265691CH         74AC373M         .51         .48         .45           211932CH         74AC373M         .40         .36         .32           265711CH         74AC374M         .51         .43         .323           265851CH         74AC374M         .51         .43         .323           265851CH         74AC377M         .66         .61         .54           242763CH         74AC377M         .54         .46         .328           238941CH         74AC399N         1.85         1.69         1.52           265869CH         74AC521M         .96         .88         .76           238959CH         74AC521M         .75         .67         .55           23897CH         74AC540M         .75         .67         .55           238975CH         74AC541M         .75         .67         .55           23		265658CH	74AC257M	38	.32	.25
211924CH         74AC273N         .40         .34         .26           265826CH         74AC299M         1.79         1.45         1.09           238924CH         74AC299N         1.35         1.25         1.05           265691CH         74AC373M         .51         .48         .45           211932CH         74AC373N         .40         .36         .32           265711CH         74AC374M         .30         .29         .25           211941CH         74AC374M         .51         .43         .323           265851CH         74AC377M         .66         .61         .54           242763CH         74AC377N         .571         .54         .46         .328           238941CH         74AC379N         1.85         1.69         1.52         .265869CH         74AC521M         .96         .88         .76           238959CH         74AC521N         .598         .71         .54         .408           265738CH         74AC540M         .75         .67         .55           238975CH         74AC541M         .75         .67         .55           238975CH         74AC541N         .59         .50         .38 </td <td></td> <td>238879CH</td> <td>74AC257N</td> <td>38</td> <td>.35</td> <td>.33</td>		238879CH	74AC257N	38	.35	.33
265826CH       74AC299M       1.79       1.45       1.09         238924CH       74AC299N       1.35       1.25       1.05         265691CH       74AC373M       .51       .48       .45         211932CH       74AC373N       .40       .36       .32         265711CH       74AC374M       .30       .29       .25         211941CH       74AC374N       .51       .43       .323         265851CH       74AC377N       \$-71       .54       .46       .328         238941CH       74AC377N       \$-871       .54       .46       .328         238941CH       74AC399N       1.85       1.69       1.52         265869CH       74AC521N       \$-98       .71       .54       .408         265738CH       74AC540M       .75       .67       .55         23897CH       74AC540N       .54       .46       .34         265754CH       74AC541N       .59       .50       .38         265771CH       74AC573M       .41       .33       .25         23893CH       74AC574M       .41       .33       .25		265674CH	74AC273M	51	.48	.45
238924CH         74AC299N         1.35         1.25         1.05           265691CH         74AC373M         .51         .48         .45           211932CH         74AC373N         .40         .36         .32           265711CH         74AC374M         .30         .29         .25           211941CH         74AC374N         .51         .43         .323           265851CH         74AC377M         .66         .61         .54           242763CH         74AC377N         .57         .54         .46         .328           238941CH         74AC379N         .185         1.69         1.52         .265869CH         74AC521M         .96         .88         .70         .238959CH         74AC521N         .59         .51         .40         .40         .265738CH         74AC540M         .75         .67         .55         .238967CH         74AC540M         .54         .46         .34         .265754CH         74AC541M         .75         .67         .55         .238975CH         74AC541N         .59         .50         .38         .265771CH         74AC573M         .41         .33         .25           228993CH         74AC573M         .44         .37		211924CH	74AC273N	40	.34	.26
265691CH         74AC373M         .51         .48         .45           211932CH         74AC373N         .40         .36         .32           265711CH         74AC374M         .30         .29         .25           211941CH         74AC374N         .51         .43         .323           265851CH         74AC377M         .66         .61         .54           242763CH         74AC377N         .71         .54         .46         .328           238941CH         74AC399N         1.85         1.69         1.52         .265869CH         74AC521M         .96         .88         .71         .54         .408         .265738CH         74AC521N         .75         .67         .55           238967CH         74AC540M         .75         .67         .55         .53         .238975CH         74AC541M         .75         .67         .55           238975CH         74AC541N         .59         .50         .38           265771CH         74AC573M         .41         .33         .25           238983CH         74AC574M         .41         .33         .25		265826CH	74AC299M	1.79		1.09
211932CH       74AC373N       .40       .36       .32         265711CH       74AC374M       .30       .29       .25         211941CH       74AC374N       .51       .43       .323         265851CH       74AC377M       .66       .61       .54         242763CH       74AC377N       .57       .54       .46       .328         238941CH       74AC399N       1.85       1.69       1.52         265869CH       74AC521M       .96       .88       .76         238959CH       74AC521N       .598       .71       .54       .408         265738CH       74AC540M       .75       .67       .55         238967CH       74AC540M       .75       .67       .55         238975CH       74AC541M       .75       .67       .55         238975CH       74AC573M       .41       .33       .25         238983CH       74AC573N       .44       .37       .28         265797CH       74AC574M       .41       .33       .25		238924CH	74AC299N	1.35	1.25	1.05
265711CH         74AC374M         30         29         25           211941CH         74AC374N         51         43         323           265851CH         74AC377M         66         61         .54           242763CH         74AC377N         \$-71         .54         .46         .328           238941CH         74AC399N         1.85         1.69         1.52           265869CH         74AC521M         .96         .88         .76           238959CH         74AC521N         \$-98         .71         .54         .408           265738CH         74AC540M         .75         .67         .55           238967CH         74AC540N         .54         .46         .34           265754CH         74AC541M         .75         .67         .55           238975CH         74AC541N         .59         .50         .38           265771CH         74AC573M         .41         .33         .25           22         238983CH         74AC574M         .41         .33         .25		265691CH	74AC373M	51	.48	.45
211941CH         74AC374N         .51         .43         323           265851CH         74AC377M         .66         .61         .54           242763CH         74AC377N         \$-71         .54         .46         .328           238941CH         74AC399N         1.85         1.69         1.52           265869CH         74AC521M         .96         .88         .76           238959CH         74AC521N         \$-98         .71         .54         .408           265738CH         74AC540M         .75         .67         .55           238967CH         74AC540N         .54         .46         .34           265754CH         74AC541M         .75         .67         .55           238975CH         74AC541N         .59         .50         .38           265771CH         74AC573M         .41         .33         .25           238983CH         74AC574M         .41         .33         .25		211932CH	74AC373N		.36	.32
265851CH       74AC377M       .66       .61       .54         242763CH       74AC377N       \$-71       .54       .46       .328         238941CH       74AC399N       1.85       1.69       1.52         265869CH       74AC521M       .96       .88       .76         238959CH       74AC521N       \$-98       .71       .54       .408         265738CH       74AC540M       .75       .67       .55         238967CH       74AC540M       .75       .67       .55         238975CH       74AC541M       .59       .50       .38         265771CH       74AC573M       .41       .33       .25         238983CH       74AC573N       .44       .37       .28         265797CH       74AC574M       .41       .33       .25		265711CH	74AC374M	30		.25
242763CH         74AC377N         \$-71         .54         .46         .328           238941CH         74AC399N         1.85         1.69         1.52           265869CH         74AC521M         .96         .88         .76           238959CH         74AC521N         \$-98         .71         .54         .408           265738CH         74AC540M         .75         .67         .55           238967CH         74AC540N         .54         .46         .34           265754CH         74AC541M         .75         .67         .55           238975CH         74AC541N         .59         .50         .38           265771CH         74AC573M         .41         .33         .25           238983CH         74AC574M         .41         .33         .25		211941CH	74AC374N	51	.43	.323
238941CH         74AC399N         1.85         1.69         1.52           265869CH         74AC521M         .96         .88         .76           238959CH         74AC521N         \$-98         .71         .54         .408           265738CH         74AC540M         .75         .67         .55           238967CH         74AC540N         .54         .46         .34           265754CH         74AC541M         .75         .67         .55           238975CH         74AC541N         .59         .50         .38           265771CH         74AC573M         .41         .33         .25           22         238983CH         74AC574M         .41         .33         .25           265797CH         74AC574M         .41         .33         .25		265851CH				.54
265869CH       74AC521M       96       .88       .76         238959CH       74AC521N       \$-98       .71       .54       .408         265738CH       74AC540M       .75       .67       .55         238967CH       74AC540N       .54       .46       .34         265754CH       74AC541M       .75       .67       .55         238975CH       74AC541N       .59       .50       .38         265771CH       74AC573M       .41       .33       .25         22       238983CH       74AC573N       .44       .37       .28         265797CH       74AC574M       .41       .33       .25		242763CH	74AC377N	\$ <del>.71</del> .54	.46	.328
238959CH         74AC521N         \$-98         .71         .54         .408           265738CH         74AC540M         .75         .67         .55           238967CH         74AC540N         .54         .46         .34           265754CH         74AC541M         .75         .67         .55           238975CH         74AC541N         .59         .50         .38           265771CH         74AC573M         .41         .33         .25           22         238983CH         74AC573N         .44         .37         .28           265797CH         74AC574M         .41         .33         .25						
265738CH       74AC540M       .75       .67       .55         238967CH       74AC540N       .54       .46       .34         265754CH       74AC541M       .75       .67       .55         238975CH       74AC541N       .59       .50       .38         265771CH       74AC573M       .41       .33       .25         238983CH       74AC573N       .44       .37       .28         265797CH       74AC574M       .41       .33       .25						
238967CH     74AC540N     .54     .46     .34       265754CH     74AC541M     .75     .67     .55       238975CH     74AC541N     .59     .50     .38       265771CH     74AC573M     .41     .33     .25       238983CH     74AC573N     .44     .37     .28       265797CH     74AC574M     .41     .33     .25						
265754CH       74AC541M       .75       .67       .55         238975CH       74AC541N       .59       .50       38         265771CH       74AC573M       .41       .33       .25         22       238983CH       74AC573N       .44       .37       .28         265797CH       74AC574M       .41       .33       .25						
238975CH     74AC541N     .59     .50     38       265771CH     74AC573M     .41     .33     .25       2     238983CH     74AC573N     .44     .37     .28       265797CH     74AC574M     .41     .33     .25						.34
265771CH 74AC573M						
2 238983CH 74AC573N		238975CH				.38
265797CH 74AC574M						
	2	238983CH				
238991CH 74AC574N57 .48 .36						
		238991CH	74AC574N	57	.48	.36

			TEXAS	Institution - Save 6-	10%	
Base No.	Package	Description	Part No.	T.I. Product No. 1	10	100
74AC241	DIP-20	Octal buffer/line driver w/ 3-state outputs	261729CH	SN74AC241N \$.45	\$.364	\$.276
74AC244	SOIC-20	Octal buffer/line driv. w/ 3-st. outputs	265560CH	SN74AC244DW	.36	.28
74AC244	DIP-20	Octal buffer/line driv. w/ 3-st. outputs	261796CH	SN74AC244N	.30	.258
74AC245	SOIC-20	Octal bidirectional trans. w/ 3-state I/O	265594CH	SN74AC245DW	.36	.28
74AC245	DIP-20	Octal bidirectional trans. w/ 3-state I/O	261817CH	SN74AC245N	.35	.33
74AC251	SOIC-16	8-input multiplexer w/ 3-state output	265615CH	CD74AC251M54	.47	.39
74AC251	DIP-16	8-input multiplexer w/ 3-state output				
74AC253	SOIC-16	Dual 4-input multiplexer w/ 3-state outputs	265640CH	CD74AC253M	.37	.28
74AC253	DIP-16	Dual 4-input multiplexer w/ 3-state outputs				
74AC257	SOIC-16	Quad 2-input multiplexer	265666CH	CD74AC257M	.37	.28
74AC257	DIP-16	Quad 2-input multiplexer	261956CH	CD74AC257E41	.38	.36
74AC273	SOIC-20	Octal D-type flip-flop	265682CH	CD74AC273M	.53	.46
74AC273	DIP-20	Octal D-type flip-flop	261964CH	CD74AC273E44	.38	.37
74AC299	SOIC-20	8-input univ. shift/storage reg. w/com. parallel I/O pins				
74AC299	DIP-20	8-input univ. shift/storage reg. w/com. parallel I/O pins				
74AC373	SOIC-20	Octal transparent latch w/ 3-state outputs	265703CH	SN74AC373DW	.52	.49
74AC373	DIP-20	Octal transparent latch w/ 3-state outputs	261981CH	SN74AC373N <b>.54</b>	.38	.32
74AC374	SOIC-20	Octal D-type flip-flop w/ 3-state outputs	265720CH	SN74AC374DW	.29	.27
74AC374	DIP-20	Octal D-type flip-flop w/ 3-state outputs	262035CH	SN74AC374N	.59	.53
74AC377	SOIC-20	Octal D-type flip flop w/ clock enable				
74AC377	DIP-20	Octal D-type flip flop w/ clock enable				
74AC399	DIP-16	Quad 2-port register				
74AC521	SOIC-20	8-bit identity comparator				
74AC521	DIP-20	8-bit identity comparator				
74AC540	SOIC-20	Octal buffer/line driver w/ 3-state outputs	265746CH	CD74AC540M	.74	.60
74AC540	DIP-20	Octal buffer/line driver w/ 3-state outputs				
74AC541	SOIC-20	Octal buffer/line driver w/ 3-state outputs	265762CH	CD74AC541M	.74	.59
74AC541	DIP-20	Octal buffer/line driver w/ 3-state outputs	262051CH	CD74AC541E	.66	.50
74AC573	SOIC-20	Octal latch w/ 3-state outputs	265789CH	SN74AC573DW	.36	.28
74AC573	DIP-20	Octal latch w/ 3-state outputs	262086CH	SN74AC573N	.40	.302
74AC574	SOIC-20	Octal D-type flip-flop w/ 3-state outputs	265800CH	SN74AC574DW	.36	.28
74AC574	DIP-20	Octal D-type flip-flop w/ 3-state outputs	262094CH	SN74AC574N	.56	.49

74ACT Series – ACT family offers TTL inputs with CMOS outputs

DIP	THINT!
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SOIC



		<b>Quantity SAVE</b>	- TEXAS	Institutents - Save 6-7	10%	
Base No.	Package	Description	Part No.	T.I. Product No. 1	10	100
74ACT00	SOIC-14	Quad 2-input NAND gate	265885CH	SN74ACT00D \$.20	\$.19	\$.16
74ACT00	DIP-14	Quad 2-input NAND gate	262326CH	SN74ACT00N	.24	.20
74ACT02	SOIC-14	Quad 2-input NOR gate	265922CH	CD74ACT02M22	.20	.16
74ACT02	DIP-14	Quad 2-input NOR gate	262334CH	CD74ACT02E	.324	.238
74ACT04	SOIC-14	Hex inverter	265949CH	SN74ACT04D22	.20	.16
74ACT04	DIP-14	Hex inverter	262342CH	SN74ACT04N	.22	.18
74ACT08	SOIC-14	Quad 2-input AND gate	266141CH	SN74ACT08D20	.178	.15
74ACT08	DIP-14	Quad 2-input AND gate	262351CH	SN74ACT08N	.313	.222
74ACT10	SOIC-14	Triple 3-input NAND gate	266271CH	SN74ACT10D	.26	.20
74ACT10	DIP-14	Triple 3-input NAND gate	262369CH	SN74ACT10N22	.20	.16
74ACT14	SOIC-14	Hex inverter with Schmitt trigger input	266301CH	SN74ACT14D22	.18	.16
74ACT14	DIP-14	Hex inverter with Schmitt trigger input	262377CH	SN74ACT14N	.20	.16
74ACT32	SOIC-14	Quad 2-input OR gate	266378CH	SN74ACT32D22	.20	.16
74ACT32	DIP-14	Quad 2-input OR gate	262465CH	SN74ACT32N	.302	.227
74ACT74	SOIC-14	Dual D-type pos. edge-triggered flip-flop	266431CH	SN74ACT74D	.26	.19
74ACT74	DIP-14	Dual D-type pos. edge-triggered flip-flop	262473CH	SN74ACT74N	.24	.20
74ACT86	SOIC-14	Quad 2-input exclusive OR gate	266458CH	SN74ACT86D31	.29	.20
74ACT86	DIP-14	Quad 2-input exclusive OR gate	262481CH	SN74ACT86N22	.20	.16
74ACT125	SOIC-14	Quad buffer with 3-state outputs				
74ACT125	DIP-14	Quad buffer with 3-state outputs				

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* Prepackaged: order in increments of 10 or 100								
Part No.	Cross Ref.	1	10	100				
265877CH	74ACT00M	*	\$.17	\$.14				
211959CH	74ACT00N	25	.21	.156				
265914CH	74ACT02M	20	.18	.14				
211967CH	74ACT02N		.30	.22				
265957CH	74ACT04M	20	.18	.14				
211975CH	74ACT04N	25	.21	.16				
266159CH	74ACT08M	*	.17	.13				
211983CH	74ACT08N	36	.29	.206				
266263CH	74ACT10M	26	.23	.19				
239046CH	74ACT10N	20	.17	.13				
266298CH	74ACT14M	20	.18	.14				
211991CH	74ACT14N	\$. <del>23</del> .21	.18	.13				
266360CH	74ACT32M	20	.18	.14				
212003CH	74ACT32N	33	.28	.21				
266423CH	74ACT74M	27	.23	.176				
212011CH	74ACT74N	25	.21	.16				
266440CH	74ACT86M	28	.27	.19				
212020CH	74ACT86N	20	.17	.128				
266466CH	74ACT125M	86	.73	.59				
239003CH	74ACT125N	32	.27	.20				

† Note: TI now owns GE, Harris & RCA logic; Fairchild now owns National Semi logic; Philips now owns Signetics; and On Semi is also known as Motorola.



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#### 74ACT Series (Continued) – ACT family offers TTL inputs with CMOS outputsDIP





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**Quantity SAVE** 

	5 0	·	TEXAS !	INSTRUMENTS -	Save 6-1	10%	
Base No.	Package	Description	Part No.	T.I. Product No.	1	10	100
74ACT138	SOIC-16	1 of 8 decoder/demultiplexer	266482CH	CD74ACT138M	\$.35	\$.32	\$.24
74ACT138	DIP-16	1 of 8 decoder/demultiplexer	262490CH	CD74ACT138E	35	.30	.21
74ACT139	SOIC-16	Dual 1 of 4 decoder/demultiplexer	266503CH	CD74ACT139M	41	.33	.25
74ACT139	DIP-16	Dual 1 of 4 decoder/demultiplexer	262502CH	CD74ACT139E	41	.33	.23
74ACT151	SOIC-16	8-input multiplexer					
74ACT151	DIP-16	8-input multiplexer					
74ACT157	SOIC-16	Quad 2-input multiplexer	266538CH	CD74ACT157M	32	.28	.25
74ACT157	DIP-16	Quad 2-input multiplexer	262529CH	CD74ACT157E	47	.355	.26
74ACT161	SOIC-16	Synchronous binary counter	266554CH	CD74ACT161M	69	.63	.51
74ACT161	DIP-16	Synchronous binary counter	262676CH	CD74ACT161E	43	.35	.29
74ACT163	SOIC-16	Synchronous presettable binary counter	266571CH	CD74ACT163M		.32	.25
74ACT163	DIP-16	Synchronous presettable binary counter	262684CH	CD74ACT163E	54	.41	.31
74ACT174	SOIC-16	HEX D-type flip-flop with master reset	266634CH	CD74ACT174M	41	.38	.36
74ACT174	DIP-16	HEX D-type flip-flop with master reset	262692CH	CD74ACT174E		.46	.34
74ACT175	SOIC-16	Quad D-type flip-flop	266685CH	CD74ACT175M		.54	.43
74ACT175	DIP-16	Quad D-type flip-flop	262799CH	CD74ACT175E		.54	.43
74ACT240		Octal buffer/line driv. w/ 3-st. outputs	266749CH	CD74ACT240DW.		.41	.31
74ACT240	DIP-20	Octal buffer/line driv. w/ 3-st. outputs	262828CH	CD74ACT240N		.28	.24
74ACT241		Octal buffer/line driver with 3-state outputs	266773CH	SN74ACT241DW.		.36	.28
74ACT241		Octal buffer/line driver with 3-state outputs	263038CH	SN74ACT241N		.36	.28
74ACT244		Octal buffer/line driv. w/ 3-st. outputs	266909CH	SN74ACT244DW.		.30	.26
74ACT244		Octal buffer/line driv. w/ 3-st. outputs	263046CH	SN74ACT244N		.377	.286
74ACT245		Octal bidirectional trans. w/ 3-state I/O	266925CH	SN74ACT245DW.		.36	.28
74ACT245		Octal bidirectional trans. w/ 3-state I/O	263062CH	SN74ACT245N	41	.37	.35
74ACT251		8-input multiplexer					
74ACT251		8-input multiplexer					
74ACT257		Quad 2-input multiplexer with 3-st. outputs	266968CH	CD74ACT257M		.61	.55
74ACT257		Quad 2-input multiplexer with 3-st. outputs	263097CH	CD74ACT257E		.31	.27
74ACT273		Octal D-type flip-flop	266984CH	CD74ACT273M		.41	.31
74ACT273		Octal D-type flip-flop	263100CH	CD74ACT273E		.36	.28
74ACT373		Octal transparent latch w/ 3-state outputs	267004CH	SN74ACT373DW .		.36	.28
74ACT373		Octal transparent latch w/ 3-state outputs	263177CH	SN74ACT373N		.36	.28
74ACT374		Octal D-type flip-flop w/ 3-state outputs	267021CH	SN74ACT374DW .		.36	.28
74ACT374		Octal D-type flip-flop w/ 3-state outputs	263193CH	SN74ACT374N	44	.36	.28
74ACT521 74ACT521		8-bit identity comparator					
74ACT521		8-bit identity comparator	267080CH	SN74ACT533DW .	40	.37	.28
74ACT533		Octal transparent latch w/ 3-state outputs Octal transparent latch w/ 3-state outputs	263425CH	SN74ACT533DW		.52	.20
74ACT533		Octal buffer/line driver with 3-state outputs	267178CH	CD74ACT541M		.38	.30
74ACT541		Octal buffer/line driver with 3-state outputs	263441CH	CD74ACT541W		.36	.28
74ACT541 74ACT573		Octal latch with 3-state outputs	267282CH	SN74ACT573DW .		.36	.20
74ACT573		Octal latch with 3-state outputs	263468CH	SN74ACT573DW .		.59	.55
74ACT573		Octal D-type flip-flop	267346CH	SN74ACT573		.36	.28
74ACT574		Octal D-type flip-flop	263476CH	SN74ACT574DW .		.55	.45
74ACT374		Programmable video sync. generator	2007/0011	5117 TAO 1 57 TH		.55	.43
74ACT715		Programmable video syne, generator					

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266474CH	74ACT138M	\$.32	\$.29	\$.22
212038CH	74ACT138N	23	.20	.15
266491CH	74ACT139M	37	.30	.23
239011CH	74ACT139N	38	.32	.24
266511CH	74ACT151M		.30	.23
239020CH	74ACT151N	\$. <sup>51</sup> .44	.329	.249
266520CH	74ACT157M	30	.27	.23
239038CH	74ACT157N	44	.329	.249
266546CH	74ACT161M	63	.57	.48
239071CH	74ACT161N	39	.33	.25
266562CH	74ACT163M	39	.30	.23
239062CH	74ACT163N	49	.42	.31
266600CH	74ACT174M	38	.35	.33
239054CH	74ACT174N	48	.41	.31
266677CH	74ACT175M	55	.49	.40
239089CH	74ACT175N	55	.47	.328
266731CH	74ACT240M	46	.37	.29
212046CH	74ACT240N	30	.26	.218
266765CH	74ACT241M	41	.33	.25
239097CH	74ACT241N	41	.33	.25
266896CH	74ACT244M	32	.27	.24
212054CH	74ACT244N	45	.34	.26
266917CH	74ACT245M	40	.33	.25
212062CH	74ACT245N	38	.33	(.25)
266933CH	74ACT251M	46	.35	.26
239100CH	74ACT251N	46	.35	.27
266941CH	74ACT257M		.35	.33
239126CH	74ACT257N	36	.31	(.23)
266976CH	74ACT273M		.37	.29
212071CH	74ACT273N		.31	.23
266992CH	74ACT373M		.33	.25
212089CH	74ACT373N		.33	.25
267012CH	74ACT374M		.33	.25
212097CH	74ACT374N		.33	.25
267055CH	74ACT521M		.36	.30
235230CH	74ACT521N		.60	.45
267071CH	74ACT521W		.34	.26
235248CH	74ACT533N		.47	.43
267151CH		39	.35	.29
235264CH	74ACT541N		.33	.25
267274CH	74ACT541N		.33	.25
235272CH	74ACT573N		.27	.20
267338CH		41	.33	.25
235281CH	74ACT574N		.48	.25
267371CH		9.45	8.49	7.65
	/ T/10   /   J V	7.40	0.47	1.00

† Note: TI now owns GE, Harris & RCA logic; Fairchild now owns National Semi logic; Philips now owns Signetics; and On Semi is also known as Motorola.

### TTL Logic Data Book

Programmable video sync. generator

#### Texas Instruments

74ACT715 DIP-20

Contains specifications and technical information on a broad line of TTL integrated circuits including Schottky TTL circuits. (1240 pages, 1988)

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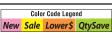
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#### 74AHC(T)XXX CMOS Logic Competitive Cross Reference Guide

Family	Package	TI	Jameco	Fairchild	On Semi	ST Micro	Philips	Toshiba	Samsung	
AHC(T)	DIP	SN74AHC(T)XXXN	HC(T)XXXN 74AHC(T)XXXN MM74VHC(T)XXXN		_	_			KS74AHC(T)XXXN	
	SOIC	SN74AHC(T)XXXD/DW	74AHC(T)XXXM	MM74VHC(T)XXXM/WM	MC74VHC(T)XXXD	M74VHC(T)XXXM	74AHC(T)XXXD	TC74VHC(T)XXXFN/FW	_	

74AHC Series – AHC family offers CMOS inputs with CMOS outputs

AHC(T) = VHC(T)

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			TEXAS INSTRUMENTS - Save 6-10%			Toshiba product.†				
Base No.	Package	Description	Part No.	T.I. Product No. 1	10	100	Part No.	Cross Ref. 1	10	100
74AHC00	SOIC-14	Quad 2-input positive NAND gate	289641CH	SN74AHC00D \$.32	\$.27	\$.19	289650CH	74AHC00M \$.30	\$.253	\$.176
74AHC00	DIP-14	Quad 2-input positive NAND gate	287726CH	SN74AHC00N	.30	.21	214092CH	74AHC00N32	.27	.19
74AHC02	SOIC-14	Quad 2-input positive NOR gate	289668CH	SN74AHC02D	.31	.22	289676CH	74AHC02M <b>.30</b>	.291	.202
74AHC02	DIP-14	Quad 2-input positive NOR gate	287742CH	SN74AHC02N36	.30	.21	214105CH	74AHC02N32	.27	.19
74AHC04	SOIC-14	Hex inverter	289721CH	SN74AHC04D	.31	.22	289748CH	74AHC04M <b>.30</b>	.291	.202
74AHC04	DIP-14	Hex inverter	287751CH	SN74AHC04N36	.30	.21	214113CH	74AHC04N32	.27	.19
74AHC08	SOIC-14	Quad 2-input positive AND gate	289764CH	SN74AHC08D	.32	.22	289772CH	74AHC08M36	.291	.202
74AHC08	DIP-14	Quad 2-input positive AND gate	287777CH	SN74AHC08N36	.30	.21	214121CH	74AHC08N32	.27	.19
74AHC14	SOIC-14	Hex inverter with Schmitt trigger input	289799CH	SN74AHC14D <b>.29</b>	.25	.18	289801CH	74AHC14M <b>.26</b>	.224	.159
74AHC14	DIP-14	Hex inverter with Schmitt trigger input	288171CH	SN74AHC14N	.291	.202	214130CH	74AHC14N32	.29	.19
74AHC32	SOIC-14	Quad 2-input positive OR gate	289932CH	SN74AHC32D <b>39</b>	.319	.221	289941CH	74AHC32M <b>35</b>	.291	.202
74AHC32	DIP-14	Quad 2-input positive OR gate	288198CH	SN74AHC32N	.33	.23	214148CH	74AHC32N36	.29	.20
74AHC74	SOIC-14	Dual D-type pos. edge-triggered flip-flop	289959CH	SN74AHC74D	.32	.22	289967CH	74AHC74M36	.291	.202
74AHC74	DIP-14	Dual D-type pos. edge-triggered flip-flop	288201CH	SN74AHC74N30	.29	.21	214156CH	74AHC74N	.22	.165
74AHC86	SOIC-14	Quad 2-input exclusive OR gate	289983CH	SN74AHC86D	.173	.156	289991CH	74AHC86M <b>.20</b>	.158	.143
74AHC86	DIP-14	Quad 2-input exclusive OR gate	288219CH	SN74AHC86N	.355	.248	214164CH	74AHC86N32	.27	.19
74AHC138	SOIC-16	3-line to 8-line decoders/demultiplexers	290036CH	SN74AHC138D	.373	.304	290044CH	74AHC138M <b>.39</b>	.34	.277
74AHC138	DIP-16	3-line to 8-line decoders/demultiplexers	288286CH	SN74AHC138N	.37	.26	243213CH	74AHC138N <b>.45</b>	.38	.28
74AHC139	SOIC-16	Dual 2-line to 4-line decoders/demultiplexers	290061CH	SN74AHC139D	.38	.30	290079CH	74AHC139M <b>.44</b>	.332	.277
74AHC139	DIP-16	Dual 2-line to 4-line decoders/demultiplexers	288294CH	SN74AHC139N	.41	.32	243221CH	74AHC139N <b>.45</b>	.38	.28
74AHC157	DIP-16	2 to 1 data selector/multiplexer	288382CH	SN74AHC157N	.45	.34	243230CH	74AHC157N	.40	.31
74AHC240	SOIC-20	Octal buffer/driver w/ 3-st. outputs	290108CH	SN74AHC240DW	.38	.29	290116CH	74AHC240M <b>.46</b>	.349	.269
74AHC240	DIP-20	Octal buffer/driver w/ 3-st. outputs	288315CH	SN74AHC240N <b>29</b>	.256	.248	214172CH	74AHC240N31	.28	.26
74AHC244	SOIC-20	Octal buffer/driver w/ 3-st. outputs	290175CH	SN74AHC244DW41	.33	.25	290183CH	74AHC244M <b>.37</b>	.299	.227
74AHC244	DIP-20	Octal buffer/driver w/ 3-st. outputs	288323CH	SN74AHC244N36	.291	.221	214181CH	74AHC244N33	.27	.20
74AHC245	SOIC-20	Octal bus transceiver w/ 3-state outputs	290191CH	SN74AHC245DW43	.33	.25	290204CH	74AHC245M <b>.39</b>	.299	.227
74AHC245	DIP-20	Octal bus transceiver w/ 3-state outputs	288331CH	SN74AHC245N	.292	.216	214199CH	74AHC245N <b>.39</b>	.299	.227
74AHC373	SOIC-20	Octal transparent D-type latch w/ 3-st. outputs	290212CH	SN74AHC373DW43	.33	.25	290239CH	74AHC373M <b>.39</b>	.299	.227
74AHC373	DIP-20	Octal transparent D-type latch w/ 3-st. outputs	288340CH	SN74AHC373N	.24	.22	214201CH	74AHC373N <b>26</b>	.22	.17
74AHC374	SOIC-20	Octal edge-trig. D-type flip-flop w/ 3-st. outputs	290247CH	SN74AHC374DW <b>.29</b>	.237	.212	290255CH	74AHC374M <b>.26</b>	.216	.193
74AHC374	DIP-20	Octal edge-trig. D-type flip-flop w/ 3-st. outputs	288358CH	SN74AHC374N	.24	.22	214210CH	74AHC374N	.24	.227
74AHC541	SOIC-20	Octal buffer/driver w/ 3-state outputs	290271CH	SN74AHC541DW	.38	.29	290280CH	74AHC541M <b>.46</b>	.349	.265
74AHC541	DIP-20	Octal buffer/driver w/ 3-state outputs	288366CH	SN74AHC541N	.349	.265	214228CH	74AHC541N33	.27	.20
74AHC574	SOIC-20	Octal edge-trig. D-type flip-flop w/ 3-st. outputs	290298CH	SN74AHC574DW29	.237	.213	290319CH	74AHC574M	.216	.203
74AHC574	DIP-20	Octal edge-trig. D-type flip-flop w/ 3-st. outputs	288374CH	SN74AHC574N	.30	.23	214236CH	74AHC574N <b>.39</b>	.299	.227
		-						Ø		_

74AHCT Series - AHCT family offers TTL inputs with CMOS outputs

AHC(T) = VHC(T)







		<b>Quantity SAVE</b>	TEXAS	- Save 6-1	<ul><li>Save 6-10%</li></ul>		
Base No.	Package	Description	Part No.	T.I. Product No. 1	10	100	
74AHCT00	SOIC-14	Quad 2-input positive NAND gate	289051CH	SN74AHCT00D \$.24	\$.20	\$.16	
74AHCT00	DIP-14	Quad 2-input positive NAND gate	288454CH	SN74AHCT00N	.15	.13	
74AHCT02	DIP-14	Quad 2-input positive NOR gate	288489CH	SN74AHCT02N36	.30	.21	
74AHCT04	SOIC-14	Hex inverter	289086CH	SN74AHCT04D21	.16	.14	
74AHCT04	DIP-14	Hex inverter	288497CH	SN74AHCT04N34	.30	.21	
74AHCT08	SOIC-14	Quad 2-input positive AND gate	289140CH	SN74AHCT08D21	.16	.15	
74AHCT08	DIP-14	Quad 2-input positive AND gate	288569CH	SN74AHCT08N	.291	.202	
74AHCT14	SOIC-14	Hex inverter with Schmitt trigger input	289166CH	SN74AHCT14D *	.146	.129	
74AHCT14	DIP-14	Hex inverter with Schmitt trigger input	288577CH	SN74AHCT14N	.291	.202	
74AHCT74	SOIC-14	Dual D-type pos. edge-triggered flip-flop	289262CH	SN74AHCT74D	.25	.18	
74AHCT74	DIP-14	Dual D-type pos. edge-triggered flip-flop	288649CH	SN74AHCT74N	.291	.202	
74AHCT86	SOIC-14	Quad 2-input exclusive OR gate	289289CH	SN74AHCT86D	.191	.166	
74AHCT86	DIP-14	Quad 2-input exclusive OR gate	288657CH	SN74AHCT86N	.19	.17	

Save Mo	ore! Jameco Value Or	ffering	1
	* Prepackaged: order in increr	nents of 1	0 or 100
Part No.	Cross Ref. 1	10	100
289060CH	74AHCT00M \$.22	\$.183	\$.143
43844CH	74AHCT00N	.15	.10
43852CH	74AHCT02N <b>32</b>	.27	.20
289094CH	74AHCT04M *	.149	.126
43861CH	74AHCT04N30	.266	.185
289158CH	74AHCT08M *	.149	.134
63431CH	74AHCT08N <b>30</b>	.26	.19
289174CH	74AHCT14M *	.133	.118
63458CH	74AHCT14N32	.27	.19
289254CH	74AHCT74M <b>.26</b>	.224	.159
43924CH	74AHCT74N32	.27	.20
289297CH	74AHCT86M <b>21</b>	.174	.151
43932CH	74AHCT86N21	.18	.13

†Note: TI now owns GE, Harris & RCA logic; Fairchild now owns National Semi logic; Philips now owns Signetics; and On Semi is also known as Motorola. • Refurbished = Backed by Jameco



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Base No.	Package	Description	Part No.	Τ.
74AHCT138	SOIC-16	3-line to 8-line decoders/demultiplexers	289318CH	SI
74AHCT138	DIP-16	3-line to 8-line decoders/demultiplexers	288673CH	SI
74AHCT139	SOIC-16	Dual 2-line to 4-line decoders/demultiplexers	289342CH	SI
74AHCT139	DIP-16	Dual 2-line to 4-line decoders/demultiplexers	288711CH	SI
74AHCT240	SOIC-20	Octal buffer/driver w/ 3-st. outputs	289385CH	SI
74AHCT240	DIP-20	Octal buffer/driver w/ 3-st. outputs	288737CH	SI
74AHCT244	SOIC-20	Octal buffer/driver w/ 3-st. outputs	289449CH	SI
74AHCT244	DIP-20	Octal buffer/driver w/ 3-st. outputs	288868CH	SI
74AHCT245	SOIC-20	Octal bus transceiver w/ 3-state outputs	289490CH	SI
74AHCT245	DIP-20	Octal bus transceiver w/ 3-state outputs	288884CH	SI
74AHCT373	SOIC-20	Octal transparent D-type latch w/ 3-st. outputs	289502CH	SI
74AHCT373	DIP-20	Octal transparent D-type latch w/ 3-st. outputs	288892CH	SI
74AHCT374	SOIC-20	Octal edge-trig. D-type flip-flop w/ 3-st. outputs	289561CH	SI
74AHCT374	DIP-20	Octal edge-trig. D-type flip-flop w/ 3-st. outputs	288913CH	SI
74AHCT574	SOIC-20	Octal edge-trig. D-type flip-flop w/ 3-st. outputs	289617CH	SI
74AHCT574	DIP-20	Octal edge-trig. D-type flip-flop w/ 3-st. outputs	288964CH	SI

		00100	.070	
Part No.	T.I. Product No.	1	10	100
289318CH	SN74AHCT138D.	\$.50	\$.40	\$.30
288673CH	SN74AHCT138N.		.33	.25
289342CH	SN74AHCT139D.	48	.38	.30
288711CH	SN74AHCT139N.	29	.28	.20
289385CH	SN74AHCT240DW	/	.38	.29
288737CH	SN74AHCT240N.	29	.259	.248
289449CH	SN74AHCT244DW	/	.33	.25
288868CH	SN74AHCT244N.	29	.24	.21
289490CH	SN74AHCT245DW	/	.33	.25
288884CH	SN74AHCT245N.		.328	.248
289502CH	SN74AHCT373DW	/	.33	.25
288892CH	SN74AHCT373N.	29	.237	.214
289561CH	SN74AHCT374DW	/ <b>.</b> 29	.237	.212
288913CH	SN74AHCT374N.	29	.237	.212
289617CH	SN74AHCT574DW	/	.33	.25
288964CH	SN74AHCT574N.		.33	.25
	289318CH 288673CH 289342CH 288711CH 289385CH 288737CH 289449CH 288868CH 289490CH 288884CH 289502CH 288892CH 288913CH 288913CH	289318CH SN74AHCT138D. 288673CH SN74AHCT138N. 289342CH SN74AHCT139D. 288711CH SN74AHCT139N. 289385CH SN74AHCT240DW 288737CH SN74AHCT244DW 288468CH SN74AHCT244DW 288868CH SN74AHCT245N. 289490CH SN74AHCT245DW 288884CH SN74AHCT245DW 288892CH SN74AHCT373DW 288892CH SN74AHCT373DW 288913CH SN74AHCT374DW 288913CH SN74AHCT374DW 288913CH SN74AHCT374N.	289318CH         SN74AHCT138D         \$.50           288673CH         SN74AHCT138N         .40           289342CH         SN74AHCT139D         .48           288711CH         SN74AHCT139N         .29           289385CH         SN74AHCT240DW         .45           288737CH         SN74AHCT240N         .29           289449CH         SN74AHCT244DW         .43           288868CH         SN74AHCT244DW         .43           28884CH         SN74AHCT245DW         .43           288884CH         SN74AHCT373DW         .43           288892CH         SN74AHCT373N         .29           289561CH         SN74AHCT374DW         .29           288913CH         SN74AHCT374DW         .29           289617CH         SN74AHCT374DW         .43	289318CH         SN74AHCT138D         \$.50         \$.40           288673CH         SN74AHCT138N         .40         .33           289342CH         SN74AHCT139D         .48         .38           288711CH         SN74AHCT139N         .29         .28           289385CH         SN74AHCT240DW         .45         .38           288737CH         SN74AHCT240N         .29         .259           289449CH         SN74AHCT24DW         .43         .33           288868CH         SN74AHCT244DW         .43         .33           288844CH         SN74AHCT245DW         .43         .33           288894CH         SN74AHCT373DW         .43         .33           288892CH         SN74AHCT373DW         .43         .33           28892CH         SN74AHCT374DW         .29         .237           289913CH         SN74AHCT374DW         .29         .237           28913CH         SN74AHCT374DW         .29         .237           28913CH         SN74AHCT374DW         .43         .33

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### 74ABTXXX CMOS Logic Competitive Cross Reference Guide

Family	Package	TI	Jameco	Fairchild	Philips
ABT	DIP	SN74ABTXXXN	74ABTXXXN	74ABTXXXPC	74ABTXXXN
	SOIC	SN74ABTXXXD/DW	74ABTXXXD	74ABTXXXSC	74ABTXXXD

#### 74ABT Series - BiCMOS Technology for High Performance Bus Systems

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Base No.	Package	Description	Part No.	T.I. Product No. 1	10	100	Part No.	Cross Ref. 1	10	100
74ABT125	SOIC-14	Quad buffer w/ 3-state outputs	290811CH	SN74ABT125D \$.51	\$.41	\$.31	290837CH	74ABT125D \$. <b>45</b>	\$.365	\$.277
74ABT125	DIP-14	Quad bus buffer gate w/ 3-state outputs	290482CH	SN74ABT125N	.34	.29	290351CH	74ABT125N <b>36</b>	.291	.27
74ABT240	SOIC-20	Octal buffer/driver w/ 3-state outputs	290909CH	SN74ABT240ADW82	.62	.48	290917CH	74ABT240AD <b>.72</b>	.55	.42
74ABT240	DIP-20	Octal buffer/driver w/ 3-state outputs	290503CH	SN74ABT240AN	.62	.47	290360CH	74ABT240AN	.55	.42
74ABT241	SOIC-20	Octal buffer/driver w/ 3-state outputs	290941CH	SN74ABT241ADW82	.62	.48	290950CH	74ABT241AD	.548	.42
74ABT244	SOIC-20	Octal buffer/driver w/ 3-state outputs	291160CH	SN74ABT244ADW	.51	.39	291178CH	74ABT244AD <b>.59</b>	.45	.34
74ABT244	DIP-20	Octal buffer/driver w/ 3-state outputs	290511CH	SN74ABT244AN	.51	.39	290378CH	74ABT244AN <b>.59</b>	.448	.344
74ABT245	SOIC-20	Octal bus transciever w/ 3-state ouputs	291186CH	SN74ABT245BDW	.51	.39	291194CH	74ABT245BD <b>.59</b>	.448	.344
74ABT245	DIP-20	Octal bus transciever w/ 3-state ouputs	290520CH	SN74ABT245BN	.51	.39	290386CH	74ABT245BN <b>.59</b>	.448	.344
74ABT373	SOIC-20	Octal transparent D-type latch w/ 3-st. outputs	291223CH	SN74ABT373DW	.491	.373	291240CH	74ABT373D <b>.59</b>	.448	.344
74ABT373	DIP-20	Octal D-type flip-flop w/ 3-state outputs	290546CH	SN74ABT373N	.491	.377	290415CH	74ABT373N <b>.59</b>	.448	.34
74ABT374	SOIC-20	Octal D-type flip-flop w/ 3-state outputs	291266CH	SN74ABT374ADW	.51	.39	291274CH	74ABT374AD <b>.59</b>	.448	.344
74ABT374	DIP-20	Octal D-type flip-flop w/ 3-state outputs	290589CH	SN74ABT374AN	.491	.373	290423CH	74ABT374AN <b>.59</b>	.448	.344
74ABT377	SOIC-20	Octal edge-triggered D-type flip-flop w/ clock enable	291354CH	SN74ABT377ADW	.56	.43	291362CH	74ABT377AD66	.50	.378
74ABT534	SOIC-20	Octal edge-triggered D-type flipflop w/ 3-st. outputs	291371CH	SN74ABT534ADW	.66	.59	291389CH	74ABT534AD	.65	.59
74ABT541	SOIC-20	Octal buffer/driver w/ 3-state outputs	291418CH	SN74ABT541BDW	.47	.42	291426CH	74ABT541BD <b>.58</b>	.398	.37
74ABT541	DIP-20	Octal buffer/driver w/ 3-state outputs	290685CH	SN74ABT541BN	.56	.43	290440CH	74ABT541BN <b>.66</b>	.498	.378
74ABT573	SOIC-20	Octal transparent D-type latch w/ 3-st. outputs	291442CH	SN74ABT573ADW65	.49	.38	291469CH	74ABT573AD <b>.59</b>	.448	.34
74ABT573	DIP-20	Octal transparent D-type latch w/ 3-st. outputs	290693CH	SN74ABT573AN	.51	.39	290431CH	74ABT573AN <b>.59</b>	.448	.344
74ABT574	SOIC-20	Octal D-type flip-flop w/ 3-state outputs	291557CH	SN74ABT574ADW	.51	.39	291565CH	74ABT574AD <b>.59</b>	.45	.34
74ABT574	DIP-20	Octal D-type flip-flop w/ 3-state outputs	290706CH	SN74ABT574AN32	.309	.304	290458CH	74ABT574AN	.309	.304
74ABT646	SOIC-20	Octal bus transciever w/ 3-state outputs	291602CH	SN74ABT646ADW 1.25	1.06	.86	291637CH	74ABT646AD 1.15	.97	.78
74ABT646	DIP-24	Octal bus transciever w/ 3-state outputs	290714CH	SN74ABT646ANT 1.29	1.09	.87	290466CH	74ABT646AN 1.15	.97	.78
74ABT652	SOIC-24	Octal registered transcievers w/ 3-st. outputs	291741CH	SN74ABT652ADW 1.35	1.12	.89	291733CH	74ABT652AD 1.15	.99	.80
74ABT2240	SOIC-20	Octal buffer/driver w/ 3-state outputs	291750CH	SN74ABT2240ADW82	.62	.47	291768CH	74ABT2240AD	.55	.416
74ABT2244	SOIC-20	Octal buffer/driver w/ 30 ohms series resistors, 3-st.	291776CH	SN74ABT2244ADW65	.491	.377	291784CH	74ABT2244AD	.448	.34
74ABT2244	DIP-20	Octal buffer/driver w/ 30 ohms series resistors, 3-st.	290722CH	SN74ABT2244AN	.491	.377	290343CH	74ABT2244AN	.448	.344
74ABT5402	SOIC-28	12-bit line/memory driver w/ 3-state outputs	291397CH	SN74ABT5402ADW 3.09	2.69	2.53	291400CH	74ABT5402AD 2.79	2.69	2.53

† Note: TI now owns GE, Harris & RCA logic; Fairchild now owns National Semi logic; Philips now owns Signetics; and On Semi is also known as Motorola.



#### 74HC(T)XXX CMOS Logic Competitive Cross Reference Guide

F	amily	Package	TI	Jameco	Fairchild	On Semi	ST Micro	Philips	Toshiba
Н	IC(T)	DIP	SN74HC(T)XXXN	74HC(T)XXXN	MM74HC(T)XXXN	MC74HC(T)XXXN	M74HC(T)XXXBIR	74HC(T)XXXN	TC74HC(T)XXXAP
		DIP	CD74HC(T)XXXE	74HC(T)XXXN	MM74HC(T)XXXN	MC74HC(T)XXXN	M74HC(T)XXXBIR	74HC(T)XXXN	TC74HC(T)XXXAP
		SOIC	SN74HC(T)XXXD/DW	74HC(T)XXXM/WM	MM74HC(T)XXXM/WM	MC74HC(T)XXXD	M74HC(T)XXXMIR	74HC(T)XXXD	TC74HC(T)XXXAF/AFW
		SOIC	CD74HC(T)XXXM	74HC(T)XXXM/WM	MM74HC(T)XXXM/WM	MC74HC(T)XXXD	M74HC(T)XXXMIR	74HC(T)XXXD	TC74HC(T)XXXAF/AFW

74HC Series - HC family offers CMOS inputs with CMOS outputs

## SOIC

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Base No.	Package	Description	Part No.	T.I. Product No. 1	10	100	Part No.	Cross Ref. 1	10	100	
74HC00	SOIC-14	Quad 2-input NAND gate	251889CH	SN74HC00D*	\$.137	\$.12	197106CH	74HC00M*	\$.125	\$.094	
74HC00	DIP-14	Quad 2-input NAND gate	250966CH	SN74HC00N24	.21	.151	45161CH	74HC00N	.19	.14	
74HC02	SOIC-14	Quad 2-input NOR gate	251926CH	SN74HC02D	.173	.13	197114CH	74HC02M	.16	.12	
74HC02	DIP-14	Quad 2-input NOR gate	250974CH	SN74HC02N	.173	.156	45188CH	74HC02N*	.15	.113	
74HC04	SOIC-14	Hex inverter (buffered)	251934CH	SN74HC04D*	.137	.12	197122CH	74HC04M*	.125	.094	
74HC04	DIP-14	Hex inverter (buffered)	250982CH	SN74HC04N	.228	.193	45209CH	74HC04N	.208	.176	
74HC08	SOIC-14	Quad 2-input AND gate	251942CH	SN74HC08D *	.137	.12	197131CH	74HC08M*	.125	.109	
74HC08	DIP-14	Quad 2-input AND gate	251002CH	SN74HC08N	.20	.166	45225CH	74HC08N23	.16	.126	
74HC10	SOIC-14	Triple 3-input NAND gate	251951CH	SN74HC10D *	.137	.12	243272CH	74HC10M*	.125	.094	
74HC10	DIP-14	Triple 3-input NAND gate	251011CH	SN74HC10N31	.228	.202	45233CH	74HC10N28	.208	.185	
74HC11	DIP-14	Triple 3-input AND gate	251037CH	SN74HC11N	.173	.156	45268CH	74HC11N*	.158	(.118)	
74HC14	SOIC-14	Hex inverter Schmitt trigger	251969CH	SN74HC14D*	.155	.138	197149CH	74HC14M*	.141	.126	
74HC14	DIP-14	Hex inverter Schmitt trigger	251045CH	SN74HC14N24	.21	.18	45364CH	74HC14N	.19	.17	
74HC30	SOIC-14	8-input NAND gate	251985CH	CD74HC30M	.28	.20	243281CH	74HC30M28	.24	(.18)	
74HC30	DIP-14	8-input NAND gate	251070CH	CD74HC30E31	.28	.20	45786CH	74HC30N28	.24	(.18)	
74HC32	SOIC-14	Quad 2-input OR gate	251993CH	SN74HC32D*	.137	.12	197157CH	74HC32M*	.125	.094	
74HC32	DIP-14	Quad 2-input OR gate	251088CH	SN74HC32N30	.25	.22	45794CH	74HC32N	.24	(.18)	
74HC74	SOIC-14	Dual D flip-flop	252030CH	SN74HC74D22	.18	.17	197165CH	74HC74M*	.141	.106	
74HC74	DIP-14	Dual D flip-flop	251096CH	SN74HC74N38	.35	.31	46130CH	74HC74N35	.32	.29	
74HC85	SOIC-16	4-bit magnitude comparator	252048CH	CD74HC85M <b>.59</b>	.54	.49	243299CH	74HC85M43	.37	(.27)	
74HC85	DIP-16	4-bit magnitude comparator	251109CH	CD74HC85E <b>.47</b>	.45	.40	46172CH	74HC85N	.37	.27	
74HC86	SOIC-14	Quad Exclusive OR gate	252056CH	SN74HC86D*	.118	.11	243301CH	74HC86M *	.108	.081	
74HC86	DIP-14	Quad Exclusive-OR gate	251133CH	SN74HC86N27	.24	.22	46181CH	74HC86N25	.22	.20	
74HC123	SOIC-16	Dual retriggerable monostable multivibrator	252064CH	CD74HC123M	.328	.248	243310CH	74HC123M39	.33	.25	
74HC123	DIP-16	Dual retriggerable monostable multivibrator	251184CH	CD74HC123E <b>40</b>	.33	.248	45292CH	74HC123N <b>37</b>	.30	.227	
74HC125	SOIC-14	Quad bus buffer tri-state	252072CH	SN74HC125D	.191	.166	243328CH	74HC125M <b>21</b>	.19	.16	
74HC125	DIP-14	Quad bus buffer tri-state	251192CH	SN74HC125N	.264	.23	45305CH	74HC125N28	.24	(.18)	
74HC132		Quad 2-input NAND Schmitt trigger	252081CH	SN74HC132D	.218	.193	243731CH	74HC132M24	.20	(.15)	
74HC132	DIP-14	Quad 2-input NAND Schmitt trigger	251205CH	SN74HC132N31	.264	.23	45321CH	74HC132N28	.264	.23	
74HC138	SOIC-16	3-to-8 decoder/demultiplexer	252099CH	SN74HC138D	.218	.193	197173CH	74HC138M24	.20	(.15)	
74HC138	DIP-16	3-to-8 decoder/demultiplexer	251213CH	SN74HC138N	.29	.20	45330CH	74HC138N30	.27	.18	
74HC139	SOIC-16	2 to 4 decoder/demultiplexer	252101CH	SN74HC139D <b>40</b>	.36	.304	243740CH	74HC139M36	.32	.277	
74HC139	DIP-16	2-to 4 decoder/demultiplexer	251221CH	SN74HC139N	.328	.248	45356CH	74HC139N36	.299	.227	
74HC154	SOIC-24	4/16 line decoder	252110CH	CD74HC154M	.328	.248	243758CH	74HC154WM <b>40</b>	.30	.23	
74HC154	DIP-24	4/16 line decoder (.6"W)	251230CH	CD74HC154E	.63	.57	111739CH	74HC154WN	.58	.53	
74HC154	DIP-24	4/16 line decoder (.3"W)	251230CH	CD74HC154EN	.41	.367	45401CH	74HC154N	.38	.34	
74HC157	SOIC-16	Quad 2-input multiplexer	252136CH	SN74HC157D23	.183	.17	243766CH	74HC157M21	.166	.125	
74HC157	DIP-16	Quad 2-input multiplexer	251299CH	SN74HC157N28	.20	.175	45428CH	74HC157N27	.183	.16	
74HC157	SOIC-16	Synchronous 4-bit counter	251249CH 252144CH	SN74HC161D	.182	.175	243774CH	74HC161M25	.162	.10	
74HC161	DIP-16	Synchronous 4-bit counter	251301CH	SN74HC161N	.237	.212	45452CH	74HC161N30	.26	.122	
74HC163	DIP-16	Synchronous 4-bit counter	251301CH 251310CH	SN74HC163N30	.25	.212	45452CH 45479CH	74HC163N28	.24	.18	
74HC163	SOIC-14	8-bit serial shift register	251310CH 252152CH	SN74HC164D		.193	197181CH	74HC164M23	.20	.16	
					.21						
74HC164 74HC165	DIP-14 SOIC-16	8-bit serial shift register	251328CH	SN74HC164N	.33 .29	.25 .22	45487CH 197190CH	74HC164N	.30	.23 .218	
	DIP-16	Parallel load 8-bit serial shift register	252161CH			.22 .22	45495CH	74HC165N32	.249	.218	
74HC165 74HC174	SOIC-16	Parallel load 8-bit serial shift register Hex D flip-flop with clear	251336CH 252179CH	SN74HC165N	.30 .191	.166	243782CH	74HC105N	.174	.151	
74HC174	DIP-16	Hex D flip-flop with clear	251352CH	SN74HC174N	.33	.25 1.39	45508CH	74HC174N	.30	1.20	
74HC192	DIP-16	Decade up/down counter with clear	251395CH	CD74HC192E 1.75	1.57		45541CH	74HC192N 1.59	1.45	1.29	
74HC193	SOIC-16 DIP-16	Binary up/down counter with clear	252187CH 251387CH	SN74HC193D	.328	.248	243791CH 45559CH	74HC193M	.299	.19	
74HC193		Binary up/down counter with clear		SN74HC193N	.218 .45	.166 .41	243803CH		.24		
74HC221	SOIC-16	Dual mono. multivibrator Schmitt trigger	252259CH	CD74HC221M <b>.47</b>	.45	.41	2436U3UH	74HC221AM <b>.43</b>	.37	.27	

<sup>†</sup> Note: TI now owns GE, Harris & RCA logic; Fairchild now owns National Semi logic; Philips now owns Signetics; and On Semi is also known as Motorola.



### 74HC Series (Continued) – HC family offers CMOS inputs with CMOS outputs







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Base No.	Package	Description	Part No.	T.I. Product No.	1	10	100	Part No.	Cross Ref. 1	10	100
74HC221	DIP-16	Dual mono. multivibrator Schmitt trigger	251408CH	CD74HC221E\$	.58	\$.437	\$.331	45604CH	74HC221N \$.53	\$.398	\$.302
74HC240	SOIC-20	Octal inverting line driver tri-state	252267CH	SN74HC240DW	.28	.237	.202	243811CH	74HC240WM <b>.25</b>	.21	.16
74HC240	DIP-20	Octal inverting line driver tri-state	251416CH	SN74HC240N	.37	.319	.276	45612CH	74HC240N34	.29	(.22)
74HC244	SOIC-20	Octal driver tri-state	252275CH	SN74HC244DW	.28	.237	.202	197202CH	74HC244M <b>.25</b>	.21	.16
74HC244	DIP-20	Octal driver tri-state	251424CH	SN74HC244N	.49	.42	.31	45655CH	74HC244N <b>.45</b>	.39	.35
74HC245	SOIC-20	Octal transceiver tri-state	252291CH	SN74HC245DW	.43	.328	.248	197211CH	74HC245M <b>.39</b>	.33	.25
74HC245	DIP-20	Octal transceiver tri-state	251432CH	SN74HC245N	.49	.41	.31	45671CH	74HC245N <b>.45</b>	.38	(.29)
74HC273	SOIC-20	Octal D-type flip-flops with clear	252304CH	SN74HC273DW	.28	.237	.202	243820CH	74HC273WM <b>25</b>	.21	(.16)
74HC273	DIP-20	Octal D-type flip-flop with clear	251459CH	SN74HC273N	.32	.246	.23	45743CH	74HC273N <b>.29</b>	.25	(18)
74HC373	SOIC-20	Octal D-type flip-flop tri-state	252312CH	SN74HC373DW	.28	.237	.202	197229CH	74HC373M25	.21	(16)
74HC373	DIP-20	Octal D-type flip-flop tri-state	251475CH	SN74HC373N	.49	.42	.38	45831CH	74HC373N <b>.45</b>	.39	.35
74HC374	SOIC-20	Octal D-type flip-flop edge-trig tri-state	252321CH	SN74HC374DW	.28	.209	.184	197237CH	74HC374M25	.191	.17
74HC374	DIP-20	Octal D-type flip-flop edge-trig tri-state	251483CH	SN74HC374N	.53	.42	.31	45858CH	74HC374N <b>.49</b>	.39	.29
74HC393	SOIC-14	Dual 4-bit binary counter	252339CH	SN74HC393D	.28	.237	.202	243838CH	74HC393M <b>.25</b>	.21	(.16)
74HC393	DIP-14	Dual 4-bit binary counter	251504CH	SN74HC393N	.36	.32	.243	45874CH	74HC393N33	.28	(.21)
74HC540	SOIC-20	Octal invert. buffer/line driver tri-state	252347CH	SN74HC540DW	.28	.246	.221	243846CH	74HC540WM26	.22	.165
74HC540	DIP-20	Octal invert. buffer/line driver tri-state	251512CH	SN74HC540N		.291	.258	109760CH	74HC540N37	.31	(.24)
74HC541	SOIC-20	Octal buffer/line driver tri-state	252355CH	SN74HC541DW		.264	.221	243854CH	74HC541WM26	.224	.202
74HC541	DIP-20	Octal buffer/line driver tri-state	251521CH	SN74HC541N		.335	.319	46050CH	74HC541N <b>34</b>	.305	.249
74HC573	SOIC-20	Octal D-type flip-flop tri-state	252363CH	SN74HC573ADW		.246	.221	197245CH	74HC573M26	.22	.17
74HC573	DIP-20	Octal D-type flip-flop tri-state	251547CH	SN74HC573AN		.346	.304	46076CH	74HC573N37	.31	.233
74HC574	SOIC-20	Octal D-type flip-flop tri-state	252371CH	SN74HC574DW		.191	.175	197253CH	74HC574M26	.174	.14
74HC574	DIP-20	Octal D-type flip-flop tri-state	251555CH	SN74HC574N		.346	.304	46084CH	74HC574N37	.31	.233
74HC590	DIP-16	8-bit binary counter w/ output reg. tri-state	251635CH	SN74HC590AN		.346	.304	88090CH	74HC590N38	.32	(.24)
74HC595	SOIC-16	8-bit serial-to-parallel shift reg. tri-state	252523CH	SN74HC595D		.237	.202	245075CH	74HC595M25	.21	(.16)
74HC595	DIP-16	8-bit serial-to-parallel shift reg. tri-state	251643CH	SN74HC595N		.48	.42	46105CH	74HC595N62	.44	.39
74HC688	SOIC-20	8-bit mag. comparator	252531CH	SN74HC688DW		.355	.313	245083CH	74HC688WM38	.324	.286
74HC688	DIP-20	8-bit mag. comparator	251651CH	SN74HC688N		.41	.368	46113CH	74HC688N	.37	.28
74HC4017		Decade ctr./div. with 10 decoded outputs	251660CH	CD74HC4017E		.49	.469	45891CH	74HC4017N50	.46	.428
74HC4020		14-stage binary counter	252540CH	SN74HC4020D		.20	.18	245091CH	74HC4020M	.166	.125
74HC4020		14-stage binary counter	251678CH	CD74HC4020E		.20	.184	45903CH	74HC4020N	.183	.168
74HC4040		12-stage binary counter	252558CH	SN74HC4040D		.218	.202	245104CH	74HC4040M25	.199	.185
74HC4040		12 stage binary counter	251686CH	SN74HC4040N		.26	.22	45920CH	74HC4040N30	.24	.21
74HC4046		Phase lock loop	252460CH	CD74HC4046AM		.328	.294	243900CH	74HC4046M35	.299	.252
74HC4046		Phase lock loop	251694CH	CD74HC4046AE		.40	.30	45938CH	74HC4046N	.37	(.28)
74HC4049		HEX inverting buffers	252478CH	CD74HC4049M		.33	.30	243918CH	74HC4049M31	.266	.235
74HC4049		Hi speed HEX inverting buffers	272049CH	CD74HC4049E		.38	.29	272057CH	74HC4049N36	.34	.27
74HC4050		HEX non-inverting buffers	252486CH	CD74HC4050M		.355	.276	243926CH	74HC4050M38	.324	.252
74HC4050		Hi speed HEX non-inverting buffers	272065CH	CD74HC4050E		.364	.276	272073CH	74HC4050N	.332	.252
74HC4050		Single 8-channel multiplexer/demultiplexer	252380CH	CD74HC4051M		.36	.285	243862CH	74HC4051M35	.32	.26
74HC4051		Single 8-channel multiplexer/demultiplexer	251707CH	CD74HC4051E		.319	.294	88102CH	74HC4051N	.33	.29
74HC4051		Hi speed analog multiplexer/demultiplexer	252494CH	CD74HC4052M		.328	.248	245059CH	74HC4052M39	.30	.23
74HC4052		Hi speed analog multiplexer/demultiplexer	272081CH	CD74HC4052E		.36	.273	272090CH	74HC4052N	.329	.249
74HC4053		Hi speed analog multiplexer/demultiplexer	252515CH	CD74HC4053M		.35	.28	245067CH	74HC4053M35	.32	.26
74HC4053		Hi speed analog multiplexer/demultiplexer	272111CH	CD74HC4053E		.291	.248	272129CH	74HC4053N	.266	.227
74HC4053		14-stage binary counter	252419CH	SN74HC4060D		.33	.25	243871CH		.30	.23
74HC4060		14-stage binary counter	251803CH	SN74HC4060N		.33	.25	45962CH	74HC4060M		
		9 3	252435CH							.30	.23
74HC4066 74HC4066		Quad analog switch Quad analog switch		SN74HC4066D SN74HC4066N		.355	.304	243889CH 45971CH	74HC4066M	.324	.286
		Hi speed quad analog switches w/ level translation	251811CH			.364 .355	.276	245112CH	74HC4316M39	.332	.252 .265
74HC4316			252566CH	CD74HC4316M			.29		74HC4316N		
74HC4316		Hi speed quad analog switches w/ level translation	272145CH	CD74HC4316E		.41	.368	272153CH		.374	.336
74HC4514		4/16-line decoder with latch (.3"W)	318908CH	CD74HC4514EN		.83	.80	46009CH	74HC4514N (.3"W)81	.79	.68
74HC4514		4/16-line decoder with latch (.6"W)	251820CH	CD74HC4514E1		1.54	1.40	242007011	74110452014	22	24
74HC4538		Dual retrig, mono, multivibrator	252443CH	CD74HC4538M		.25	.23	243897CH	74HC4538M	.23	.21
74HC4538	טור-10	Dual retrig. mono. multivibrator	251838CH	CD74HC4538E	.40	.421	.302	46017CH	74HC4538N	.39	.28

† Note: TI now owns GE, Harris & RCA logic; Fairchild now owns National Semi logic; Philips now owns Signetics; and On Semi is also known as Motorola.

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#### 74HC(T)XXX CMOS Logic Competitive Cross Reference Guide

Family	Package	TI	Jameco	Fairchild	On Semi	ST Micro	Philips	Toshiba
HC(T)	DIP	SN74HC(T)XXXN	74HC(T)XXXN	MM74HC(T)XXXN	MC74HC(T)XXXN	M74HC(T)XXXBIR	74HC(T)XXXN	TC74HC(T)XXXAP
	DIP	CD74HC(T)XXXE	74HC(T)XXXN	MM74HC(T)XXXN	MC74HC(T)XXXN	M74HC(T)XXXBIR	74HC(T)XXXN	TC74HC(T)XXXAP
	SOIC	SN74HC(T)XXXD/DW	74HC(T)XXXM/WM	MM74HC(T)XXXM/WM	MC74HC(T)XXXD	M74HC(T)XXXMIR	74HC(T)XXXD	TC74HC(T)XXXAF/AFW
	SOIC	CD74HC(T)XXXM	74HC(T)XXXM/WM	MM74HC(T)XXXM/WM	MC74HC(T)XXXD	M74HC(T)XXXMIR	74HC(T)XXXD	TC74HC(T)XXXAF/AFW

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Base No.	Package	Description	Part No.	T.I. Product No.	1	10	100	Part No.	Cross Ref.	1	10	100
74HCT00	SOIC-14	Quad 2-input NAND gate	246393CH	SN74HCT00D .		\$.16	\$.15	246027CH	74HCT00M		\$.15	\$.14
74HCT00	DIP-14	Quad 2-input NAND gate	246406CH	SN74HCT00N .		.23	.20	44871CH	74HCT00N		.22	.19
74HCT02	SOIC-14	Quad 2-input positive NOR gate	268373CH	SN74HCT02D .		.28	.223	268390CH	74HCT02M		.24	.203
74HCT02	DIP-14	Quad 2-input NOR gate	246414CH	SN74HCT02N .		.319	.221	44880CH	74HCT02N		.291	.202
74HCT04	SOIC-14	Hex inverter	246369CH	SN74HCT04D.		.155	.138	246035CH	74HCT04M		.141	.126
74HCT04	DIP-14	Hex inverter	246422CH	SN74HCT04N.		.22	.20	44898CH	74HCT04N		.20	.15
74HCT08	SOIC-14	Quad 2-input AND gate	246078CH	SN74HCT08D .		.16	.14	246043CH	74HCT08M		.15	.126
74HCT08	DIP-14	Quad 2-input AND gate	246431CH	SN74HCT08N .		.155	.138	44901CH	74HCT08N		.141	.106
74HCT14	SOIC-14	Hex inverter Schmitt trigger	246377CH	SN74HCT14D.		.173	.156	246060CH	74HCT14M		.158	.143
74HCT14	DIP-14	Hex inverter Schmitt trigger	246449CH	SN74HCT14N.		.173	.156	44935CH	74HCT14N		.158	.143
74HCT32	SOIC-14	Quad 2-input OR gate	246318CH	SN74HCT32D .		.146	.14	246123CH	74HCT32M		.141	.126
74HCT32	DIP-14	Quad 2-input OR gate	246457CH	SN74HCT32N.		.164	.156	45057CH	74HCT32N		.149	.112
74HCT74	SOIC-14	Dual D flip-flop	246262CH	SN74HCT74D .		.173	.156	246254CH	74HCT74M		.158	.143
74HCT74	DIP-14	Dual D flip-flop	246465CH	SN74HCT74N.	27	.228	.202	45137CH	74HCT74N	25	.21	(.16)
74HCT86	SOIC-14	Quad 2-input exclusive OR gate	268411CH	CD74HCT86M		.32	.26	268429CH	74HCT86M	33	.29	.20
74HCT86	DIP-14	Quad 2-input exclusive OR gate	246473CH	CD74HCT86E .	24	.19	.13	45145CH	74HCT86N	22	.18	.12
74HCT123	SOIC-16	Dual retrigg. monostable multivibrator w/ reset	271951CH	CD74HCT123M	32	.27	.22	271960CH	74HCT123M	29	.26	.23
74HCT123	DIP-16	Dual retrigg. monostable multivibrator w/ reset	246481CH	CD74HCT123E	30	.246	.239	88049CH	74HCT123N	27	.23	.17
74HCT125	SOIC-14	Quad 3-state bus buffer	271986CH	SN74HCT125D	36	.33	.25	271994CH	74HCT125M	33	.30	.23
74HCT125	DIP-14	Quad 3-state bus buffer	246490CH	SN74HCT125N	29	.237	.212	243192CH	74HCT125N	26	.216	.193
74HCT138	SOIC-16	3 to 8 decoder/demultiplexer	246385CH	SN74HCT138D	29	.25	.21	246051CH	74HCT138M	27	.24	.19
74HCT138	DIP-16	3 to 8 decoder/demultiplexer	246502CH	SN74HCT138N	36	.309	.248	44927CH	74HCT138N	33	.282	.26
74HCT139	SOIC-16	2 to 4 decoder/demultiplexer	246289CH	SN74HCT139D	27	.228	.212	246271CH	74HCT139M	25	.208	.193
74HCT139	DIP-16	2 to 4 decoder/demultiplexer	246511CH	SN74HCT139N	35	.29	.22	63773CH	74HCT139N	32	.266	.202
74HCT154	DIP-24	4 to 16 decoder/demultiplexer	246521CH	CD74HCT154E	1.15	.90	.84	88057CH	74HCT154N	1.05	.82	.76
74HCT157		Quad 2 to 1 data selectors/multiplexers	246300CH	SN74HCT157D		.39	.294	246297CH	74HCT157M		.357	.269
74HCT157		Quad 2 to 1 data selectors/multiplexers	272145CH	SN74HCT157N		.41	.368	272196CH	74HCT157N		.26	.20
74HCT164		8-bit serial in/parallel out shift register	253016CH	CD74HCT164M		.291	.267	253024CH	74HCT164M		.266	.244
74HCT164		8-bit serial in/parallel out shift register	250819CH	CD74HCT164E		.33	.294	44978CH	74HCT164N		.30	.26
74HCT240		Octal inverting line driver w/ 3-st. outputs	246351CH	SN74HCT240D		.31	.285	246086CH	74HCT240WM		.29	.26
74HCT240		Octal inverting line driver w/ 3-st. outputs	250827CH	SN74HCT240N		.32	.29	45014CH	74HCT240N		.27	(.20)
74HCT244		Octal driver tri-state	246342CH	SN74HCT244D		.33	.25	246094CH	74HCT244WM		.30	.23
74HCT244		Octal driver tri-state	250835CH	SN74HCT244N		.33	.25	45022CH	74HCT244N		.32	.23
74HCT245		Octal transceiver w/ 3-state outputs	246334CH	SN74HCT245D		.282	.248	246107CH	74HCT245WM		.257	.227
74HCT245		Octal transceiver w/ 3-state outputs	250843CH	SN74HCT245D		.33	.25	45031CH	74HCT245N		.30	.23
74HCT273		Octal D-type flip-flop with clear	246326CH	SN74HCT273D		.31	.233	246115CH	74HCT273WM		.22	(.17)
74HCT273		Octal D-type flip-flop with clear	250851CH	SN74HCT273D		.30	.276	45049CH	74HCT273WW		.257	.252
74HCT273		Octal D-type flip-flop w// 3-state outputs	246140CH	SN74HCT373D		.282	.248	246131CH	74HCT373WM		.257	.227
				SN74HCT373D			.248		74HCT373WW			
74HCT373		Octal D-type flip-flop w/ 3-state outputs	250878CH			.328		45065CH			.299	.227
74HCT374		Octal D-type flip-flop edge-trig. w/ 3-st. outputs	246166CH	SN74HCT374D		.31	.25	246158CH	74HCT374WM		.29	.23
74HCT374		Octal D-type flip-flop edge-trig. w/ 3-st. outputs	250894CH	SN74HCT374N		.218	.21	45073CH	74HCT374N		.20	(.15)
74HCT393		Dual 4-stage binary counter	250907CH	CD74HCT393E		.355	.27	243205CH	74HCT393N		.324	.244
74HCT540		Octal 3-state buffer	246182CH	SN74HCT540D		.38	.294	246174CH	74HCT540WM		.374	.266
74HCT540		Octal 3-state buffer	250915CH	SN74HCT540N		.38	.294	109778CH	74HCT540N		.349	.269
74HCT541		Octal buffer/line driver w/ 3-state outputs	246203CH	SN74HCT541D		.282	.248	246191CH	74HCT541WM		.257	.227
74HCT541		Octal buffer/line driver w/ 3-state outputs	250923CH	SN74HCT541N		.382	.294	99303CH	74HCT541N		.35	.26
74HCT573		Octal D-type latched flip-flop w/ 3-st. outputs	246211CH	SN74HCT573D		.33	.25	246220CH	74HCT573WM		.30	.23
74HCT573		Octal D-type latched flip-flop w/ 3-st. outputs	250931CH	SN74HCT573N		.33	.25	45090CH	74HCT573N		.30	.23
74HCT574		Octal D-type flip-flop edge-trig. w/ 3-st. outputs	246246CH	SN74HCT574D		.33	.25	246238CH	74HCT574WM		.32	.23
74HCT574		Octal D-type flip-flop edge-trig. w/ 3-st. outputs	250940CH	SN74HCT574N		.33	.25	45102CH	74HCT574N		.30	.23
74HCT688	DIP-20	8-bit magnitude comparator	250958CH	CD74HCT688E	64	.52	.41	45129CH	74HCT688N	58	.49	.37

† Note: TI now owns GE, Harris & RCA logic; Fairchild now owns National Semi logic; Philips now owns Signetics; and On Semi is also known as Motorola.



#### 74FXXX CMOS Logic Competitive Cross Reference Guide

Family	Package	TI	Jameco	Fairchild	Philips
F	DIP	SN74FXXXN	74FXXXN	74FXXXPC	N74FXXXN
	SOIC	SN74FXXXD/DW	74FXXXD	74FXXXSC	N74FXXXD

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Base No.	Package	Description	Part No.	T.I. Product No. 1	10	100	Part No.	* Prepackaged: order in incr Cross Ref.		100
74F00	SOIC-14	Quad 2-input NAND gate	282845CH	SN74F00D \$.21	\$.16	\$.143	287697CH	74F00D*	\$.141	\$.119
74F00	DIP-14	Quad 2-input NAND gate	281471CH	SN74F00N	.16	.14	286985CH	74F00N*	.141	.126
74F02	SOIC-14	Quad 2-input NOR gate	282888CH	SN74F02D24	.21	.17	287689CH	74F02D	.183	.148
74F02	DIP-14	Quad 2-input NOR gate	281480CH	SN74F02N	.24	.19	286993CH	74F02N25	.216	.151
74F04	SOIC-14	Hex inverter	283071CH	SN74F04D	.23	.19	287671CH	74F04D	.199	.168
74F04	DIP-14	Hex inverter	281498CH	SN74F04N24	.18	.15	287005CH	74F04N	.158	.119
74F08	SOIC-14	Quad 2-input AND gate	283080CH	SN74F08D22	.18	.16	287662CH	74F08D	.158	.143
74F08	DIP-14	Quad 2-input AND gate	281501CH	SN74F08N22	.18	.16	287013CH	74F08N	.158	.129
74F14	SOIC-14	Hex inverter w/ schmitt trigger					287654CH	74F14D	.191	.176
74F14	DIP-14	Hex inverter w/ schmitt trigger					287021CH	74F14N22	.191	.159
74F20	DIP-14	Dual 4-input NAND gate	281527CH	SN74F20N	.20	.17	287030CH	74F20N	.174	.149
74F30	DIP-14	8-input NAND gate	281535CH	SN74F30N	.40	.285	245121CH	74F30N	.349	.252
74F32	SOIC-14	Quad 2-input OR gate	283098CH	SN74F32D	.24	.20	287638CH	74F32D	.208	.176
74F32	DIP-14	Quad 2-input OR gate	281543CH	SN74F32N	.30	.22	287048CH	74F32N	.183	.16
74F38	SOIC-14	Quad 2-input NAND buffer	283119CH	SN74F38D22	.155	.138	283127CH	74F38D		.126
74F38	DIP-14	Quad 2-input NAND buffer	281893CH	SN74F38N	.22	.20	245139CH	74F38N	.191	.176
74F74	SOIC-14	Quad 2-input NAND buffer w/ open coll. outputs	283135CH	SN74F74D30	.264	.202	287620CH	74F74D	.241	.171
74F74	DIP-14	D-type flip-flop w/ clear	281906CH	SN74F74N	.36	.247	287056CH	74F74N39	.315	.199
74F86	SOIC-14	Quad 2-input OR gate	283143CH	SN74F86D31	.264	.202	287611CH	74F86D <b>2</b> 8	.241	.185
74F86	DIP-14	Quad 2-input NOR gate	281914CH	SN74F86N	.30	.21	287064CH	74F86N32		.185
74F125	SOIC-14	Quad bus buffer gate w/ 3-state outputs	283151CH	SN74F125D	.30	.23	283160CH	74F125D	.266	.202
74F125	DIP-14	Quad bus buffer gate w/ 3-state outputs	281922CH	SN74F125N	.35	.28	245147CH	74F125N35	.307	.244
74F132	SOIC-14	Quad 2-input NAND schmitt trigger					283178CH	74F132D	.257	.235
74F138	SOIC-16	3 to 8 decoder/demultiplexer	283186CH	SN74F138D <b>.34</b>	.27	.25	287566CH	74F138D30	.241	.218
74F138	DIP-16	3 to 8 decoder/demultiplexer	281931CH	SN74F138N42	.34	.26	287072CH	74F138N	.299	.227
74F139	DIP-16	1 of 4 decoder/demultiplexer					287081CH	74F139N	.216	.189
74F148	SOIC-16	8 to 3 line priority encoder					283194CH	74F148D		.244
74F148	DIP-16	8 to 3 line priority encoder					245163CH	74F148N		.202
74F157	SOIC-16	2 to 1 data selector/multiplexers	283207CH	SN74F157AD	.30	.28	283215CH	74F157AD33	.266	.244
74F157	DIP-16	2 to 1 data selector/multiplexers	281949CH	SN74F157AN	.34	.26	245171CH	74F157AN37	.299	.227
74F161	SOIC-16	Sync. 4-bit binary counter	283469CH	SN74F161AD	.34	.26	283477CH	74F161AD39	.299	.227
74F161	DIP-16	Sync. 4-bit binary counter	281957CH	SN74F161AN	.33	.30	245180CH	74F161AN37	.291	.26
74F163	DIP-16	Sync. 4-bit binary counter	281965CH	SN74F163AN55	.446	.377	245198CH	74F163AN50		.34
74F164	DIP-14	Shift register					245201CH	74F164AN40		.269
74F169	SOIC-16	4-bit up/down binary counter	283485CH	SN74F169D 2.19	2.09	2.00	283493CH	74F169D	.56	.52
74F169	DIP-16	4-bit up/down binary counter	281973CH	SN74F169N <b>.96</b>	.87	.74	245219CH	74F169N88		.67
74F174	DIP-16	Hex D-type flip-flop w/ clear	282693CH	SN74F174N34	.27	.25	282731CH	74F174N30		.218
74F240	SOIC-20	Octal buffer/driver with 3-state outputs	283506CH	SN74F240DW	.328	.248	287558CH	74F240D39		.227
74F240	DIP-20	Octal buffer/driver with 3-state outputs	281981CH	SN74F240N	.34	.26	245227CH	74F240N39		.227
74F244	SOIC-20	Octal buffer/driver with 3-state outputs	283514CH	SN74F244DW	.46	.36	287540CH	74F244D		.319
74F244	DIP-20	Octal buffer/driver with 3-state outputs	281990CH	SN74F244N	.34	.26	287110CH	74F244N39		.198
74F245	SOIC-20	Octal bus transceiver with 3-state outputs	283549CH	SN74F245DW	.34	.26	287531CH	74F245D39		.227
74F245	DIP-20	Octal bus transceiver with 3-state outputs	282001CH	SN74F245N	.34	.26	287144CH	74F245N53		.302
74F257	SOIC-16	Quad 2 to 1 data selector/multi w/ 3 -st. outputs	283565CH	SN74F257D	.34	.26	283557CH	74F257D38		.227
. 11 207	2010 10	2000 2 to 1 data sciocion main w/ o st. outputs	200000011	5 207D	.01	.20	200007011	, 207D	.277	.221

Note: Fairchild now owns National Semi logic; and Philips now owns Signetics



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Part No.	Cross Ref.	Description 1	10	25
22103CH	JTC16	16-pin (for 8, 14 and 16-pin ICs)	\$6.25	\$5.59
22120CH	JTC20	20-pin (for 18 and 20-pin ICs)	6.50	5.35
22162CH	JTC28	28-pin (for 24 and 28-pin ICs) 10.95	9.95	8.95
22189CH	JTC40	40-pin (for 32 and 40-pin ICs)	11.35	10.75

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Base No.	Package	Description	Part No.	T.I. Product No. 1	10	100
74F257	DIP-16	Quad 2 to 1 data selector/multi w/ 3 -st. outputs	282044CH	SN74F257N \$.34	\$.28	\$.26
74F273	DIP-20	Octal D-type flip-flop				
74F299	DIP-20	8-bit shift/storage register w/ 3-state outputs	282052CH	SN74F299N 1.25	1.00	.76
74F373	SOIC-20	Octal transparent D-type latch w/ 3-state outputs	283590CH	SN74F373DW	.355	.267
74F373	DIP-20	Octal transparent D-type latch w/ 3-state outputs	282079CH	SN74F373N	.46	.35
74F374	SOIC-20	Octal edge triggered D-type latch w/ 3-st. outputs	283602CH	SN74F374DW	.33	.25
74F374	DIP-20	Octal edge trig. D-type flip-flop with 3-st. outputs	282600CH	SN74F374N	.31	.257
74F521	SOIC-20	8-bit identity comparator	283670CH	SN74F521DW	.382	.294
74F521	DIP-20	8-bit identity comparator	282802CH	SN74F521N	.66	.53
74F541	SOIC-20	Octal buffer/driver with 3-state outputs	304961CH	SN74F541DW	.55	.41
74F541	DIP-20	Octal buffer/driver with 3-state outputs	282765CH	SN74F541N <b>.74</b>	.56	.43
74F543	SOIC-24	Octal reg. Transceiver w/ 3-state outputs	283611CH	SN74F543DW <b>.95</b>	.80	.62
74F543	DIP-24	Octal reg. Transceiver w/ 3-state outputs				
74F573	SOIC-20	Octal reg. Latch w/ 3-state outputs	283637CH	SN74F573DW	.328	.248
74F573	DIP-20	Octal reg. Latch w/ 3-state outputs	282642CH	SN74F573N	.328	.248
74F574	SOIC-20	D-type flip-flop with 3-state outputs	283645CH	SN74F574DW	.328	.304
74F574	DIP-20	D-type flip-flop with 3-state outputs	282669CH	SN74F574N58	.437	.331
74F579	DIP-20	8-bit bidrectional counter				

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Part No.	Cross Ref.		10	100
245235CH	74F257N	\$.30	\$.249	\$.244
287099CH	74F273N		.415	.319
281463CH	74F299N	1.15	.93	.71
287494CH	74F373D	40	.324	.244
287161CH	74F373N	45	.398	.302
287486CH	74F374D	39	.299	.227
287187CH	74F374N	35	.274	.23
283696CH	74F521D		.349	.269
282811CH	74F521N	69	.58	.47
283653CH	74F541D	66	.498	.378
282773CH	74F541N	66	.498	.378
283629CH	74F543D	86	.73	.59
245251CH	74F543N	83	.70	.56
287478CH	74F573D	39	.299	.198
287195CH	74F573N	39	.299	.199
287460CH	74F574D	39	.299	.198
287216CH	74F574N	53	.398	.302
245260CH	74F579N	2.35	1.89	1.49

#### 74LSXXX CMOS Logic Competitive Cross Reference Guide

Family	Package	TI	Jameco	Fairchild	On Semi	RENESAS
LS	DIP	SN74LSXXXN	74HC(T)XXXN	DM74LSXXXN	SN74LSXXXN	HD74LSXXXP
	SOIC	SN74LSXXXD/DW	74HC(T)XXXM	DM74LSXXXM/WM	SN74LSXXXD/DW	_

TEXAS INSTRUMENTS

309083CH

295419CH

295427CH

295443CH

308849CH

295460CH

T.I. Product No.

#### 74LS Series – Low Power Schottky Logic

Description

Hex inverter

Hex inverter

Hex inverter (O.C.)

Hex inverter (O.C.)

Quad 2-input AND gate

Ouad 2-input AND gate

Quad 2-input AND gate (O.C.)

Quad 2-input AND gate (O.C.)

Triple 3-input NAND gate

Triple 3-input NAND gate

Triple 3-input AND gate

Triple 3-input AND gate

Hex inverter Schmitt trigger

Hex inverter Schmitt trigger

Quad 2-input NAND gate

Quad 2-input NAND gate

Quad 2-input NOR gate

Quad 2-input NOR gate

Quad 2-input NAND gate (O.C.)

Hex inverter buffer/driver (O.C.)

Hex inverter buffer/driver (O.C.)

Hex buffer/driver (O.C. hi-voltage)

Hex buffer/driver (O.C. hi-voltage)

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308582CH	SN74LS00D*	\$.171	\$.118	19
283725CH	SN74LS00N	.364	.276	46
308603CH	SN74LS02D	.364	.276	19
283741CH	SN74LS02N	.328	.248	46
283784CH	SN74LS03N	.364	.276	46
308611CH	SN74LS04D	.364	.276	19
283792CH	SN74LS04N	.364	.276	40
308620CH	SN74LS05D	.364	.276	19
283805CH	SN74LS05N	.364	.276	46
309067CH	SN74LS06D <b>.70</b>	.59	.478	30
295304CH	SN74LS06N <b>.70</b>	.59	.478	46
308638CH	SN74LS07D	.57	.478	19
295312CH	SN74LS07N	.58	.46	46
308654CH	SN74LS08D	.364	.276	19
295401CH	SN74LS08N	.364	.276	46

45

45 41			198
45	.364	.275	464
41	.327	.248	198
41	.328	.248	466

364

.276

.322

276

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SOIC

198361CH	74LS00M*	\$.158	\$.109
	74LS00N**		.24
198379CH	74LS02M \$.41 .27	.23	.17
46287CH	74LS02N**	.25	.21
46308CH	74LS03N	.33	.25
198387CH	74LS04M	.29	.21
46316CH	74LS04N** <b>.41</b>	.26	.23
198395CH	74LS05M <b>.41</b>	.33	.252
46341CH	74LS05N*	.332	.252
309075CH			.437
46359CH	74LS06N <b>64</b>	.54	.437
198408CH	74LS07M <b>64</b>	.54	.41
46367CH	74LS07N	.49	.42
198416CH	74LS08M <b>.41</b>	.33	.25
46375CH	74LS08N**36	.31	.22
309091CH	74LS09M	.332	.252
46391CH	74LS09N	.388	.294
198424CH	74LS10M \$.45 .41	.332	.252
46404CH	74LS10N*38	.25	.188
198432CH	74LS11M\$.41 .36	.263	.205
46439CH	74LS11N* <b>.41</b>	.332	.26
198441CH	74LS14M	.299	.227
46640CH	74LS14N*	.299	.227

† Note: Fairchild now owns National Semi logic; Philips now owns Signetics; and On Semi is also known as Motorola; Renesas is the new company formed by the merger of Mitsubishi and Hitachi \*10 pcs. in 74LS series IC cabinet kit, pg 29 \*20 pcs. in 74LS series IC cabinet kit, pg 29

SN74LS09D .......45

SN74LS09N .......56

SN74LS10N

SN74LS11N

SN74LS14D

SN74LS14N



Base No.

74LS00

741 S00

74LS02

74LS02

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Package

SOIC-14

DIP-14

SOIC-14

DIP-14

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SOIC-14

SOIC-14

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SOIC-14

DIP-14

DIP-14

<sup>\*</sup>Note: Fairchild now owns National Semi logic; Philips now owns Signetics; and On Semi is also known as Motorola

### 74LS Series (Continued) – Low Power Schottky Logic



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SOIC



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specific	brand of IC	c, select from the functionally equivaler			Quanti	ty SAVE		most popul	ar manufacturers	and pass the s	avings (	on to
column,	to your rig	ht, to save up to 20%!	<b>◆</b> Texas	♣ Texas Issuments — Save 6-10%			you. For this family, you are guaranteed to receive Fairchi National, On Semi, Philips, ST and/or Renesas product.†					
Base No.	Package	Description	Part No.	T.I. Product No.	1	10	100	Part No.	Cross Ref.	1	10	
74LS20	SOIC-14	Dual 4-input NAND gate	T divisor	· · · · · · · · · · · · · · · · · · ·	·			198459CH	74LS20M		\$.44	\$.32
74LS20	DIP-14	Dual 4-input NAND gate	295478CH	SN74LS20N	\$.31	\$.209	\$.202	47095CH	74LS20N*		.191	$\overline{}$
74LS21	DIP-14	Dual 4-input AND gate	295486CH	SN74LS21N		.237	.202	47108CH	74LS21N		.21	.16
74LS27	DIP-14	Triple 3-input NOR gate	295494CH	SN74LS27N		.364	.276	47378CH	74LS27N		.31	.233
74LS30	SOIC-14	8-input NAND gate						198467CH	74LS30M		.22	.20
74LS30	DIP-14	8-input NAND gate	295507CH	SN74LS30N	45	.364	.276	47458CH	74LS30N*		.332	.252
74LS32	SOIC-14	Quad 2-input OR gate	308873CH	SN74LS32D		.364	.276	198475CH	74LS32M		.332	
74LS32	DIP-14	Quad 2-input OR gate	295515CH	SN74LS32N	31	.28	.248	47466CH	74LS32N**	29	.26	.23
74LS37	DIP-14	Quad 2-input NAND gate buffer	295558CH	SN74LS37N	59	.482	.442	47597CH	74LS37N	54	.46	.34
74LS38	DIP-14	Quad 2-input NAND gate buffer (O.C.)	295566CH	SN74LS38N	36	.246	.239	47693CH	74LS38N		.224	.202
74LS42	DIP-16	BCD-to-decimal decoder/driver	295574CH	SN74LS42N	1.29	.92	.83	47773CH	74LS42N		.65	.54
74LS47	DIP-16	BCD to 7-seg. decoder/driver (O.C.)	295582CH	SN74LS47N		.58	.539	47790CH	74LS47N*		.52	.45
74LS48	DIP-16	BCD to 7-seg. decoder/driver						47811CH	74LS48N	4.99	4.24	3.18
74LS73	DIP-14	Dual JK flip-flop with clear	295700CH	SN74LS73AN	1.09	.96	.77	47992CH	74LS73N*	37	.338	.238
74LS74	SOIC-14	Dual D flip-flop	308881CH	SN74LS74AD	45	.364	.276	198491CH	74LS74M	41	.332	.252
74LS74	DIP-14	Dual D flip-flop	295726CH	SN74LS74AN	45	.364	.276	48004CH	74LS74N**	36	.25	.22
74LS75	SOIC-16	4-bit bi-stable latch						198504CH	74LS75M	68	.57	.41
74LS75	DIP-16	4-bit bi-stable latch	295734CH	SN74LS75N		.89	.82	48021CH	74LS75N*	86	.73	.55
74LS76	DIP-16	Dual JK flip-flop with preset and clear						48039CH	74LS76N	69	.62	.55
74LS83	DIP-16	4-bit binary full adder						48063CH	74LS83N	1.49	1.35	1.19
74LS85	SOIC-16	4-bit magnitude comparator	308902CH	SN74LS85D	68	.52	.394	198512CH	74LS85M	62	.437	.36
74LS85	DIP-16	4-bit magnitude comparator	295742CH	SN74LS85N	46	.419	.386	48071CH	74LS85N*	42	.382	.353
74LS86	SOIC-14	Quad Exclusive-OR gate	308911CH	SN74LS86AD	45	.364	.276	198521CH	74LS86M	41	.33	.25
74LS86	DIP-14	Quad Exclusive-OR gate	295751CH	SN74LS86AN	38	.324	.238	48098CH	74LS86N*	35	.30	.22
74LS90	SOIC-14	Decade counter						198539CH	74LS90M	\$.82.70	.52	.383
74LS90	DIP-14	Decade counter	295769CH	SN74LS90N	53	.486	.421	48119CH	74LS90N*		.45	.39
74LS92	DIP-14	Divide-by-12 counter	295814CH	SN74LS92N	1.15	.98	.74	48143CH	74LS92N	99	.82	(.60)
74LS93	SOIC-14	4-bit binary counter						198547CH	74LS93M	\$ <del>.66</del> .56	.476	.357
74LS93	DIP-14	4-bit binary counter	295822CH	SN74LS93N	95	.85	.76	48151CH	74LS93N*		.79	.70
74LS95	DIP-14	4-bit parallel-access shift register						48178CH	74LS95N	1.05	.91	.79
74LS107	DIP-14	Dual JK flip-flop with clear	295865CH	SN74LS107AN	79	.72	.66	46412CH	74LS107N		.51	.36
74LS109	SOIC-16	Dual JK pos. edge-trig. flip-flop	309104CH	SN74LS109AD	65	.491	.373	309112CH	74LS109M	59	.448	.34
74LS109	DIP-16	Dual JK pos. edge-trig. flip-flop	295873CH	SN74LS109AN	65	.64	.497	46421CH	74LS109N	57	.48	.35
74LS112	DIP-16	Dual JK neg. edge-trig. flip-flop	300855CH	SN74LS112AN		.328	.248	46447CH	74LS112N	39	.299	.227
74LS122	DIP-14	Retrig. mono. multivibrator comm. CLK	300863CH	SN74LS122N	50	.382	.289	46471CH	74LS122N	46	.35	.27
74LS123	SOIC-16	Dual mono. multivibrator with clear	308937CH	SN74LS123D	50	.382	.29	198555CH	74LS123M	46	.35	.27
74LS123	DIP-16	Dual mono. multivibrator with clear	300880CH	SN74LS123N	50	.382	.289	46480CH	74LS123N*	45	.35	.27
74LS125	SOIC-14	Quad 3-state buffer	308945CH	SN74LS125AD	50	.382	.29	243168CH	74LS125AM	46	.349	.265
74LS125	DIP-14	Quad bus buffer neg. enable tri-state	300901CH	SN74LS125AN	36	.309	.285	46501CH	74LS125N*	33	.282	.26
74LS126	SOIC-14	Quad bus buffer tri-state	309121CH	SN74LS126AD	50	.382	.29	309139CH	74LS126AM	46	.349	.265
74LS126	DIP-14	Quad bus buffer tri-state	300927CH	SN74LS126AN	50	.382	.289	46527CH	74LS126N	37	.345	.253
74LS132	DIP-14	Quad 2-input NAND Schmitt trigger	300935CH	SN74LS132N	54	.41	.311	46551CH	74LS132N	49	.369	.298
74LS136	DIP-14	Quad EXCLUSIVE-OR gate (O.C.)	301225CH	SN74LS136N	58	.437	.331	46586CH	74LS136N	53	.40	.30
74LS138	SOIC-16	3 to 8 decoder/demultiplexer	308953CH	SN74LS138D	50	.382	.29	198563CH	74LS138M	46	.349	.269
74LS138	DIP-16	3 to 8 decoder/demultiplexer	301233CH	SN74LS138N	50	.382	.29	46607CH	74LS138N**	45	.35	.26
74LS139	SOIC-16	2 to 4 decoder/demultiplexer	309147CH	SN74LS139AD	41	.328	.294	309155CH	74LS139AM	37	.299	.265
74LS139	DIP-16	2 to 4 decoder/demultiplexer	301268CH	SN74LS139AN	50	.421	.313	46623CH	74LS139N*	46	.39	.29
74LS145	SOIC-16	BCD-to-decimal decoder/driver	309163CH	SN74LS145D	37	.319	.294	309171CH	74LS145M	34	.291	.269
74LS145	DIP-16	BCD-to-decimal decoder/driver	301276CH	SN74LS145N	47	.355	.35	46666CH	74LS145N	42	.37	.33
74LS148	DIP-16	8 to 3 priority encoder	301330CH	SN74LS148N	85	.73	.59	46682CH	74LS148N		.68	.55
74LS151	SOIC-16	8-input multiplexer						198571CH	74LS151M	31	.26	.20
74LS151	DIP-16	8-input multiplexer	301348CH	SN74LS151N	50	.382	.29	46703CH	74LS151N*	45	.349	.269
74LS153	DIP-16	Dual 4-to-1 selector/multiplexer	301532CH	SN74LS153N		.396	.263	46720CH	74LS153N	41	.35	.26
74LS154	DIP-24	4 to 16 line decoder/demultiplexer						46738CH	74LS154N	5.15	4.59	3.69
74LS155	DIP-16	Dual 2/4 demultiplexer	301559CH	SN74LS155AN	81	.60	.55	46754CH	74LS155N*	74	.63	.47
74LS156	DIP-16	Dual 2/4 demultiplexer (O.C.)	301591CH	SN74LS156N	39	.309	.29	46762CH	74LS156N		.282	$\sim$
74LS157	SOIC-16	Quad 2/1 data selector	308970CH	SN74LS157D	33	.282	.258	198580CH	74LS157M		.26	.19
74LS157	DIP-16	Quad 2/1 data selector	301612CH	SN74LS157N	50	.382	.29	46771CH	74LS157N*	45	.40	.33
74LS160	DIP-16	Decade counter with asynch. clear						46800CH	74LS160N		2.39	2.29
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† Note: Fairchild now owns National Semi logic; Philips now owns Signetics; and On Semi is also known as Motorola; Renesas is the new company formed by the merger of Mitsubishi and Hitachi
\*10 pcs. in 74LS series IC cabinet kit, pg 29
\*\*20 pcs. in 74LSseries IC cabinet kit, pg 29



#### 74LS Series (Continued) – Low Power Schottky Logic





### Save When Purchasing Texas Instruments Products. Jameco now offers two ways to save! Our selection of Texas Instruments products will save you about 6-10% off market prices. And if your project doesn't require a

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Save More! Jameco Value Offering Now you can save up to 20% off market price! Our buyers will find the best deals available from this product family's most popular manufacturers and pass the savings on to you. For this family, you are guaranteed to receive Fairchild,

		•	♣ Texas Instituments - Save 6-10%				National, On Semi, Philips, ST and/or Renesas product.†			
Base No.	Package	Description	Part No.	T.I. Product No. 1	10	100	Part No.	Cross Ref. 1	10	100
74LS161	DIP-16	Synch 4-bit counter	301647CH	SN74LS161AN \$.50	\$.382	\$.29	46818CH	74LS161N\$.46	\$.349	\$.265
74LS163	DIP-16	Fully synch. 4-bit counter	301663CH	SN74LS163AN	.382	.29	46842CH	74LS163N	.349	.265
74LS164	SOIC-14	8-bit serial shift register	309180CH	SN74LS164D	.414	.373	309198CH	74LS164M <b>.46</b>	.349	.265
74LS164	DIP-14	8-bit serial shift register	301671CH	SN74LS164N <b>47</b>	.382	.29	46851CH	74LS164N	.36	.27
74LS165	DIP-16	8-bit serial shift register, parallel load	301680CH	SN74LS165AN	.364	.275	46877CH	74LS165N	.33	.252
74LS166	DIP-16	8-bit shift register, parallel load	301727CH	SN74LS166AN	.60	.455	46885CH	74LS166N <b>.71</b>	.54	(.41)
74LS169	DIP-16	Synch. binary up/down counter	301735CH	SN74LS169BN	.491	.373	46906CH	74LS169N	.47	.35
74LS173	DIP-16	4-bit D-type reg. tri-state	301743CH	SN74LS173AN	.90	.89	46922CH	74LS173N	.81	.80
74LS174	DIP-16	Hex D flip-flop with clear	301760CH	SN74LS174N	.328	.29	46931CH	74LS174N*	.299	.265
74LS175	DIP-16	Quad D flip-flop with clear	301778CH	SN74LS175N	.246	.23	46957CH	74LS175N*	.249	.21
74LS181	DIP-24	Arithmetic logic unit/function generator	301786CH	SN74LS181N 4.19	3.54	2.56	46973CH	74LS181N 1.95	1.64	1.11
74LS190	DIP-16	Synchronous up/down counter	204045011	CN741 C404N FO	400	455	46990CH	74LS190N 2.95	2.65	2.55
74LS191	DIP-16	Up/down binary counter	301815CH	SN74LS191N	.482	.455	47001CH	74LS191N	.44	.42
74LS192	DIP-16	Decade up/down counter with clear					47010CH	74LS192N	3.59	3.25
74LS193 74LS193	SOIC-16 DIP-16	Binary up/down counter with clear	301831CH	SN74LS193N <b>64</b>	E2	.486	198598CH 47036CH	74LS193M	.74 .49	.45
74LS193	DIP-16	Binary up/down counter with clear 4-bit bi-directional shift register	301858CH	SN74LS194AN	.53 .68	.55	47050CH 47052CH	74LS194N	.63	.50
74LS194	DIP-16	4-bit parallel-access shift register	301030011	3N/4L3174AN	.00	.55	47032CH	74LS195N81	.66	(.46)
74LS221	SOIC-16	Dual monostable multivibrator	308988CH	SN74LS221D <b>.79</b>	.65	.59	243176CH	74LS221M	.55	.42
74LS221	DIP-16	Dual mono. multivibrator Schmitt trigger	308283CH	SN74LS221D	.29	.276	47124CH	74LS221N33	.267	.25
74LS240	SOIC-20	Octal invert, line driver tri-state	309008CH	SN74LS240DW58	.437	.331	198619CH	74LS240M53	.40	.30
74LS240	DIP-20	Octal invert. line driver tri-state	308291CH	SN74LS240N	.30	.294	47141CH	74LS240N*32	.27	.20
74LS241	DIP-20	Octal bus/line driver tri-state	308304CH	SN74LS241N	.328	.304	47167CH	74LS241N36	.299	.23
74LS244	SOIC-20	Octal driver tri-state	309016CH	SN74LS244DW58	.437	.331	198627CH	74LS244M53	.398	.302
74LS244	DIP-20	Octal driver tri-state	308312CH	SN74LS244N	.40	.331	47183CH	74LS244N*	.37	.28
74LS245	SOIC-20	Octal bus transceiver tri-state	309024CH	SN74LS245DW	.328	.248	198635CH	74LS245M39	.299	.227
74LS245	DIP-20	Octal bus transceiver tri-state	308321CH	SN74LS245N	.437	.378	47212CH	74LS245N*53	.40	.35
74LS247	DIP-16	BCD to 7-segment decoder/driver (O.C.)	308347CH	SN74LS247N 1.05	.87	.70	47247CH	74LS247N <b>.94</b>	.80	.62
74LS251	DIP-16	8-channel multiplexer tri-state	308355CH	SN74LS251N	.437	.351	47271CH	74LS251N	.398	.299
74LS257	DIP-16	Quad 2-input multiplexer tri-state	308363CH	SN74LS257BN	.464	.352	47298CH	74LS257N	.423	.322
74LS259	DIP-16	8-bit addressable latch	308371CH	SN74LS259BN	.391	.359	47327CH	74LS259N	.357	.328
74LS266	DIP-14	Quad EXCLUSIVE-NOR gate (O.C.)	308380CH	SN74LS266N	.60	.54	47360CH	74LS266N <b>.65</b>	.498	.378
74LS273	SOIC-20	Octal D-type flip-flop with clear	309032CH	SN74LS273DW	.437	.331	198643CH	74LS273M	.398	.302
74LS273	DIP-20	Octal D-type flip-flop with clear	308398CH	SN74LS273N	.437	.331	47386CH	74LS273N*	.357	.276
74LS279	DIP-16	Quad set-reset latches	308401CH	SN74LS279AN55	.428	.368	47407CH	74LS279N	.41	.319
74LS283	DIP-16	4-bit binary full add with fast carry	308435CH	SN74LS283N	.428	.405	47423CH	74LS283N	.36	.27
74LS299	DIP-20	8-bit universal shift/storage register	308427CH	SN74LS299N	.66	.62	47440CH	74LS299N\$.66 .53	.45	.34
74LS365	DIP-16	Hex buffer with logical OR tri-state	308443CH	SN74LS365AN	.73	.59	47546CH	74LS365N	.66	.54
74LS367	DIP-16	Hex buffer tri-state	308451CH	SN74LS367AN	.355	.331	47562CH	74LS367N <b>.40</b>	.324	.243
74LS368	DIP-16	Hex bus driver w/ tri-state	309278CH	SN74ALS368AN	.364	.34	309286CH	74ALS368AN <b>39</b>	.332	.311
74LS373	SOIC-20	Octal D flip-flop tri-state	309041CH	SN74LS373DW	.328	.248	198651CH	74LS373M <b>39</b>	.299	.227
74LS373	DIP-20	Octal D flip-flop tri-state	308460CH	SN74LS373N	.421	.378	47600CH	74LS373N*	.39	.35
74LS374	SOIC-20	Octal D F/F edge-trig tri-state	309059CH	SN74LS374DW	.437	.331	198660CH	74LS374M53	.398	.302
74LS374	DIP-20	Octal D F/F edge-trig tri-state	308478CH	SN74LS374N	.421	.367	47634CH	74LS374N*	.39	.34
74LS377	DIP-20	Octal D register common enable	308486CH	SN74LS377N	.68	.55	47669CH	74LS377N31	.20	.15
74LS390	DIP-16	Dual 4-bit decade counter	308494CH	SN74LS390N	.64	.53	47722CH	74LS390N	.59	.44
74LS393	SOIC-16	Dual 4-bit binary counter	200507011	CNI741 C202N E7	455	422	243184CH	74LS393M	.60	.45
74LS393	DIP-14	Dual 4-bit binary counter Retrig monostable multivibrator	308507CH	SN74LS393N	.455	.432	47731CH 309307CH	74LS393N	.44	.33
74LS423 74LS540	DIP-14 DIP-20	Octal invert. buffer/line driver tri-state	309294CH	SN74LS423N 1.05	.87	.76		74LS423AN	.79 .59	.69
74LS540 74LS541	SOIC-20	Octal buffer/line driver tri-state	308515CH 309227CH	SN74LS540N	.64 .455	.515 .414	47861CH 309235CH	74LS541WM55	.415	.47 .378
74LS541	DIP-20	Octal buffer/line driver tri-state	309227CH 308523CH		.41	.368	47870CH	74LS541N	.39	.376
74LS541 74LS573	DIP-20	Octal D-type F/F latch tri-state	3003Z3UH	SN74LS541N	.41	.300	64418CH	74LS573N	1.85	1.55
74LS573	DIP-20	Octal D-type F/F later tri-state  Octal D-type F/F edge-trig. tri-state					64426CH	74LS573N	1.89	1.69
74LS574 74LS590	DIP-20	8-bit binary counter w/o reg. tri-state	308531CH	SN74LS590N 4.99	4.05	3.65	47909CH	74LS590N	3.65	2.74
74LS590 74LS595	DIP-16	8-bit serial-to-parallel shift reg. tri-state	308540CH	SN74LS595N 4.99	4.05	3.65	103974CH	74LS590N	3.87	2.90
74LS645	DIP-16 DIP-20	Octal bus transceiver tri-state	308558CH	SN74LS645-1N 1.79	1.44	1.10	47950CH	74LS645N	1.31	1.00
74LS682	DIP-20	8-bit magnitude comparator	309251CH	SN74LS682N 1.19	.956	.73	309260CH	74LS682N 1.05	.86	.66
74LS688	DIP-20	8-bit magnitude comparator	308574CH	SN74LS688N	.83	.76	47984CH	74LS688N80	.68	.51
, 123000	211 20	o Dit magnitude comparator	000071011		.00	.70	17704011	, .2000014	.00	.01/

† Note: Fairchild now owns National Semi logic; Philips now owns Signetics; and On Semi is also known as Motorola; Renesas is the new company formed by the merger of Mitsubishi and Hitachi 10 pcs. in 74LS series IC cabinet kit, pg 29



74ALS	Series		DIP ATTITUTE	S	oic 🔨	antenana
Part No.	Cross Ref.	Pkg.	Description	1	10	100
309868CH	74ALS00AM	SOIC-14	Quad 2-input NAND gate	3.22	\$.191	\$.176
245294CH	74ALS00AN	DIP-14	Quad 2-input NAND gate	.39	.30	.23
309905CH	74ALS02AM	SOIC-14	Quad 2-input NOR gate	.31	.274	.202
43959CH	74ALS02N	DIP-14	Quad 2-input NOR gate	.30	.27	.22
309948CH	74ALS04BM	SOIC-14	Hex inverters	.31	.274	.198
245307CH	74ALS04BN	DIP-14	Hex inverters	.38	.33	.23
309972CH	74ALS05AM	SOIC-14	Hex inverters w/ open collector outputs	.31	.274	.202
245286CH	74ALS05AN	DIP-14	Hex inverters w/ open collector outputs	.38	.33	.23
310009CH	74ALS08M	SOIC-14	Quad 2-input AND gate	.31	.274	.198
43983CH	74ALS08N	DIP-14	Quad 2-input AND gate	.28	.25	.21
310025CH	74ALS10AM	SOIC-14	Triple 3-input NAND gate	.27	.257	.227
245315CH	74ALS10AN	DIP-14	Triple 3-input NAND gate		.30	.28
310041CH	74ALS11AM	SOIC-14	Triple 3-input AND gate	.31	.274	.202
245323CH	74ALS11AN	DIP-14	Triple 3-input AND gate		.38	.28
310068CH	74ALS27M	SOIC-14	Triple 3-input NOR gate		.282	.218
63503CH	74ALS27N	DIP-14	Triple 3-input NOR gate		.22	(.17)
245796CH	74ALS30AN	DIP-14	8-input NAND gate		.30	.23
310084CH	74ALS32M	SOIC-14	Quad 2-input OR gate		.133	.126
44134CH	74ALS32N	DIP-14	Quad 2-input OR gate		.32	.23
310113CH	74ALS74AM	SOIC-14	Dual D-pos. edge trigg flip-flops w/ preset & clear		.166	.143
	74ALS74AN	DIP-14	Dual D-pos. edge trigg. flip-flops w/ preset & clear		.30	.23
	74ALS86M		Quad 2-input exclusive OR gate		.299	.227
44214CH	74ALS86N	DIP-14	Quad 2-input exclusive OR gate \$.40		.21	(.16)
	74ALS138M		3 to 8 line decoder/demultiplexer		.349	.269
	74ALS138N	DIP-16	3 to 8 line decoder/demultiplexer		.349	.265
	74ALS139M		2 to 4 line decoder/demultiplexer		.349	.297
	74ALS139N	DIP-16	2 to 4 line decoder/demultiplexer		.448	.336
	74ALS151N	DIP-16	1 of 8 line data selector/multiplexer		.37	.29
	74ALS161BN		4-bit decade/binary counter		.34	.283
	74ALS174N	DIP-8	Quad D-type flip-flop w/ clear		.398	.302
	74ALS175N	DIP-16	Quad D-type flip-flop w/ clear		.398	.302
	74ALS240AN		Octal 3-state bus driver		.315	.294
	74ALS240AN		Octal 3-state bus driver		.38	.29
	74ALS240AN		Octal 3-state bus driver		.448	.336
245761CH	74ALS244AN		Octal 3-state bus driver		.41	.30
			Octal 3-state bus driver		.448	.336
	74ALS245AN		Octal 3-state bus transceiver		.35	.27
44100CH	74ALS245AN 74ALS251N	DIP-20	3-st. 1 of 8 line data selector/multiplexer		.49	.27
	74ALS251N 74ALS258N	DIP-16	3-st. quad 1 of 2 line data selector/multiplexer			.39
	74ALS258N 74ALS273M	SOIC-20	1 1. 0		.51 .60	.39
	74ALS273N		Octal D-type edge trig fliip-flops w/ clear outputs  Octal D-type edge trig, flip-flops w/ clear inputs \$-7	_		
44118CH		DIP-20			.53	(.40)
	74ALS373M	DIP-20	Octal D-type 3-st transparent latches	.34	.448	.34
44142CH	74ALS373N 74ALS374M		21		.29	.22
			Octal 3-st D-type edge trigg flip-flops		.357	.328
	74ALS374AN		Octal 3-st. D-type edge trigg. flip-flops		.38	.29
	74ALS520M		8-bit comparator		.90	.77
	74ALS520N	DIP-20	8-bit comparator		.95	.76
	74ALS521N	DIP-20	8-bit comparator		1.16	.82
	74ALS533N	DIP-20	Octal D-type transparent latches w/ 3-st. outputs 1		1.02	.73
	74ALS540M		Octal inverting buffers & line driver w/ 3-st outputs 1		1.08	.87
	74ALS540N	DIP-20	Octal inverting buffers & line driv. w/ 3-st. outputs		.67	.54
310551CH	74ALS541M	SOIC-20	Octal buffers and line drivers w/ 3-st outputs	.74	.62	.504

#### 74LS Series IC Kit

Includes:

20-drawer component cabinet (319599CH), 20 clear plastic drawers (319601CH),

20 clear dividers (319610CH), pg 244 and 30 adhesive labels for drawers to identify parts in kit

10 each: 74LS05, 74LS10, 74LS11, 74LS14, 74LS20, 74LS30, 74LS47, 74LS73, 74LS75, 74LS85, 74LS86, 74LS90

74LS13, 74LS123, 74LS125, 74LS139, 74LS151, 74LS155, 74LS157, 74LS174, 74LS175, 74LS193, 74LS240, 74LS244, 74LS245, 74LS273, 74LS373, 74LS374

**SAVE \$58** 

20 each: 74LS00, 74LS02, 74LS04, 74LS08, 74LS32, 74LS74, 74LS138

Part No.	Description	Wt. (lbs.) 1	10
84961CH	420 pcs. 74LS IC kit	6.7 <b>\$119.95</b>	\$107.95
130391CH	Refill for 84961CH (420 pcs.)	2.0 <b>99.99</b>	89.99

74ALS	Series	(Conti	inued) DIP	,	soic 🔻	en a na a
Part No.	Cross Ref.	Pkg.	Description	1	10	100
245850CH	74ALS541N	DIP-20	Octal buffers & line drivers w/ 3-st. outputs \$	3.79	\$.67	\$.55
310578CH	74ALS573BN	1DIP-20	Octal D-type transp. latch w/ 3-st. outputs	.59	.448	.336
245868CH	74ALS573BN	DIP-20	Octal D-type transp. latch w/ 3-st. outputs	.43	.36	.29
310623CH	74ALS574AN	1SOIC-20	Octal D-type edge trigg flip-flops w/ 3-st outputs	.59	.448	.336
245876CH	74ALS574AN	DIP-20	Octal D-type edge trigg. flip-flops w/ 3-st. outputs	.43	.39	.36
310640CH	74ALS645AN	1SOIC-20	Octal bus transceivers	.74	.60	.546
245884CH	74ALS645AN	DIP-20	Octal bus transceivers	.98	.83	.67
309796CH	74ALS688N	DIP-20	8-bit identity comparator 2	2.95	2.39	1.88

### Jameco's 3.3 Volt Logic

#### **74LVC Series**





For 3.3V power Supplies. This 3.3V logic series is offered in both 8 and 16-bit functions.

Part No.	Cross Ref.	Pkg.	Description	1	10	100
313429CH	74LVC00AD	SOIC-14	Quad 2-input NAND gate	\$.38	\$.299	\$.21
313470CH	74LVC04AD	SOIC-14	Hex inverter	38	.307	.21
313488CH	74LVC08AD	SOIC-14	Quad 2-input AND gate	38	.307	.21
313496CH	74LVC14AD	SOIC-14	Hex inverter w/ schmitt trigger	38	.307	.21
313517CH	74LVC32AD	SOIC-14	Quad 2-input OR gate	38	.307	.21
313533CH	74LVC74AD	SOIC-14	Dual D-type flip-flop w/ set/reset	38	.299	.21
313576CH	74LVC125AD	SOIC-14	Quad bus buffer w/ 3-st	27	.216	.185
313613CH	74LVC138AD	SOIC-16	3-to-8 line decoder/demultiplexer	37	.299	.227
313621CH	74LVC157AD	SOIC-16	2-to-1 line decoder/demultiplexer	37	.299	.227
313648CH	74LVC244AD	SOIC-20	Octal buffer/driver w/ 3-st	41	.332	.252
313630CH	74LVC245AD	SOIC-20	4-bit sync binary counter	41	.332	.252
313584CH	74LVC374AD	SOIC-20	Octal D-type flip-flop w/ 3-st	41	.332	.252
313541CH	74LVC541AD	SOIC-20	Octal buffer/driver w/ 3-st	41	.332	.305
313461CH	74LVC573AD	SOIC-20	Octal D-type latch w/ 3-st	41	.332	.252
313824CH	74LVC574AD	SOIC-20	Octal D-type flip-flop w/ 3-st	41	.332	.252
313947CH	74LVC16244AT	TSSOP-48	16-bit buffer/driver w/ 3-st	95	.79	.71
313955CH	74LVC16245AT	TSSOP-48	16-bit bus transceiver w/ 3-st	95	.79	.71
313963CH	74LVC162244AT	TSSOP-48	16-bit buffer/driver w/ 3-st	95	.79	.64

#### 74ALVC Series

TSSOP



Ideal for Memory Interfacing. This 3.3V logic series is offered in both 8 and 16-bit functions.

Part No.	Cross Ref.	Pkg.	Description 1	10	100
313980CH	74ALVC00D	SOIC-14	Quad 2-input NAND gate \$.33	\$.266	\$.202
314309CH	74ALVC00T	TSSOP-14	Quad 2-input NAND gate33	.265	.202
314000CH	74ALVC04D	SOIC-14	Hex inverter33	.266	.202
314229CH	74ALVC08D	SOIC-14	Quad 2-input AND gate33	.266	.202
314341CH	74ALVC08T	TSSOP-14	Quad 2-input AND gate33	.265	.20
314237CH	74ALVC32D	SOIC-14	Quad 2-input OR gate33	.266	.205
314333CH	74ALVC32T	TSSOP-14	Quad 2-input OR gate37	.29	.227
314253CH	74ALVC125	SOIC-14	Quad bus buffer w/ 3-state43	.324	.244
314405CH	74ALVC244T	TSSOP-14	Octal buffer/driver w/ 3-state44	.332	.261
314421CH	74ALVC245DW	SOIC-20	Octal bus transceiver w/ 3-state44	.336	.262
314430CH	74ALVC245T	TSSOP-20	Octal bus transceiver w/ 3-state44	.336	.261
314456CH	74ALVCH16244T	TSSOP-48	16-bit buffer/driver w/ 3-state 1.04	.84	.64
314499CH	74ALVCH16245T	TSSOP-48	16-bit buffer/driver w/ 3-state 1.04	.84	.64
314528CH	74ALVCH16373T	TSSOP-48	16-bit D-type latch w/ 3-state 1.04	.84	.64
314595CH	74ALVCH16374T	TSSOP-48	16-bit D-type flip-flop w/ 3-state 1.04	.84	.64
314616CH	74ALVCH162244T	TSSOP-48	16-bit buffer/driver w/ 3-state 1.05	.99	.90
314624CH	74ALVCH162374T	TSSOP-48	16-bit D-type flip-flop w/ 3-state 1.05	.99	.90
314632CH	74ALVCH164245T	TSSOP-20	16-bit level-shifting transceiver 1.12	.95	.77

4000	Series		DIP	'mmm'	SOIC	ennennen
Part No.	Cross Ref.	Pkg.	Description		1 10	100
12562CH	CD4001N**	DIP-14	Quad 2-input NOR gate	\$.2	9 \$.24	\$.19
197261CH	CD4001M	SOIC-14	Quad 2-input NOR gate		8 .23	.18
12597CH	CD4007N	DIP-14	Dual comp. pair with inverter	2	9 .25	.22
12634CH	CD4011N**	DIP-14	Quad 2-input NAND gate	2	9 .24	.19
197270CH	CD4011M	SOIC-14	Quad 2-input NAND gate		2 .208	.193
12677CH	CD4013N**	DIP-14	Dual D flip-flop with set/reset	3	5 .25	.22
**20 pcs. i	n 4000 series I	C cabinet	kit, pg 30			

			Thousands of new ICs are in the J	pipeline	for addi	tion ar
4000 \$	Series (	Contin	ued) DIP	TTT s	soic 🔪	Trevere Care
	Cross Ref.	Pkg.	Description	1	10	100
197288CH		SOIC-14				\$.195
	CD4015N*	DIP-16	Dual 4-stage static shift register		.37	.28
	CD4016N*	DIP-14	Quad bilateral switch		.24	.18
	CD4017N*	DIP-16	Decade counter/divider		.35	.31
197296CH		SOIC-16			.45	(.33)
	CD4018N	DIP-16	Presettable divide-by-N counter		.25	.23
12802CH 197309CH	CD4020N*	DIP-16	14-stage binary/ripple counter		.39	.29
	CD4020M CD4021N	SOIC-16 DIP-16	14-stage binary/ripple counter		.49 .34	.36
	CD4021N CD4022N	DIP-16	8-stage static shift register Div. by 8-cntr./driver w/ 8-decoded outputs		.34	.203
	CD4022N*	DIP-14	Triple 3-input NAND gate		.23	.16
	CD4024N*	DIP-14	7-stage binary counter		.27	.18
353560CH		DIP-16	Decade counter/divider		.52	.45
	CD4027N*	DIP-16	Dual JK master-slave flip-flop		.22	.16
197317CH		SOIC-16			.35	.26
	CD4028N	DIP-16	BCD-to-decimal decoder		.22	.19
	CD4029N	DIP-16	Presettable up/down counter		.27	.18
197325CH		SOIC-16			.34	.26
	CD4040N*	DIP-16	12-stage binary/ripple counter		.27	.18
197333CH		SOIC-16	12-stage binary/ripple counter		.47	.34
12984CH	CD4042N	DIP-16	Quad clocked D latch		.213	.159
12992CH	CD4043N	DIP-16	Quad NOR R-S latch tri-state	.31 .28	.24	.18
13004CH	CD4044N	DIP-16	Quad 3-state NAND R-S latch tri-state	33	.28	.21
13012CH	CD4046N*	DIP-16	Micropower phase-locked loop	30	.27	.23
13039CH	CD4047N	DIP-14	Monostable/astable multivibrator	30	.25	.22
13055CH	CD4049N**	DIP-16	Hex/buffer/converter (inverting)	29	.24	.21
197341CH		SOIC-16	Hex/buffer/converter (inverting)		.28	.21
	CD4050N*	DIP-16	Hex/buffer/converter (N-inverting)		.21	.19
197350CH		SOIC-16	· 5/		.33	.25
	CD4051N*	DIP-16	Single 8-channel multi./demultiplexer		.39	.35
197368CH		SOIC-16	3		.21	(.16)
	CD4052N	DIP-16	Diff. 4-channel multi./demultiplexer		.332	.252
	CD4053N	DIP-16	Triple 2-channel multi./demultiplexer		.191	.168
	CD4060N	DIP-16	14-stage ripple-carry binary		.33	.25
	CD4066N**	DIP-14	Quad bilateral switch		.25	.19
197376CH 13215CH	CD4066M CD4067N	SOIC-14 DIP-24			.232	.151
	CD4067N CD4069N*	DIP-24 DIP-14	16-channel analog multi/demultiplexer Hex inverter (74C04)		.63 .24	.50 .17
197384CH		SOIC-14			.24	.17
	CD4069IVI CD4070N*	DIP-14	Quad EXCLUSIVE-OR gate (74C86)		.24	.143
	CD4070N CD4070M	SOIC-14	=		.24	.17
	CD4070M*	DIP-14	Quad 2-input OR gate		.238	(.179
197392CH		SOIC-14			.24	.17
	CD4071W	DIP-14	Quad 2-input AND gate		.26	.24
197405CH		SOIC-14	Quad 2-input AND gate		.30	.22
	CD4093N*	DIP-14	Quad 2-input NAND Schmitt trigger		.25	.19
197413CH		SOIC-14	Quad 2-input NAND Schmitt trigger		.26	.19
13426CH	CD4094N	DIP-16	8-stage shift-and-store bus register		.37	.31
13434CH	CD4098N	DIP-16	CMOS/MOS dual mono. multivibrator	39	.299	.227
13442CH	CD4099N	DIP-16	8-bit addressable latch	30	.27	.24
13469CH	CD4503N	DIP-16	Tri-state hex buffer (74C367) 80C97		.25	.22
		cahinet ki	t, below **20 pcs. in 4000 series IC o	ahinat kit	, below	
•	4000 series IC ned = Backed		•	abiliet Kit		
Refurbish  4000 S Includes: 20-drawer 20 clear pl 20 clear di 30 adhesiv 10 each:	Series C component astic drawer viders (319) re labels for CD4015, CD4 CD4027, CD4	c cabinet rs (3196 610CH), drawers 016, CD4 040, CD4	C Kit (319599CH), SAVE \$28 (01CH), pg 244 and to identify parts in kit (017, CD4020, CD4023, CD4024, 1046, CD4050, CD4051, CD4069,	i azari i a i azari i a i azari i a i azari i a	84970CH	
Refurbish  4000 S Includes: 20-drawer 20 clear pl 20 clear di 30 adhesiv 10 each:	Series C component lastic drawer viders (319) re labels for CD4015, CD4 CD4027, CD4 CD4070, CD4	cMOS t cabinet rs (3196 610CH), drawers 016, CD4 040, CD4 071, CD4	IC Kit (319599CH), 01CH), pg 244 and to identify parts in kit 1017, CD4020, CD4023, CD4024, 1046, CD4050, CD4051, CD4069, 1081, CD4093, CD4511, CD4538, CD4	i azari i a i azari i a i azari i a i azari i a		
Refurbish  4000 S  Includes: 20-drawer 20 clear pl 20 clear di 30 adhesiv 10 each: 0 0 20 each: 0	component astic drawer viders (319) ve labels for CD4015, CD4 DD4027, CD4 CD4001, CD4 CD4001, CD4	c cabinet rs (3196 610CH), drawers 016, CD4 040, CD4 071, CD4 011, CD4	Control (1975) (	i azari i a i azari i a i azari i a i azari i a	4584	
Refurbish  4000 S Includes: 20-drawer 20 clear pl 20 clear di 30 adhesiv 10 each:	component lastic drawer viders (319) ve labels for CD4015, CD4 CD4070, CD4 CD4070, CD4 CD4001, CD4 Descriptio	cabinet rs (3196 610CH), drawers 016, CD4 0011, CD4 001	IC Kit (319599CH), 01CH), pg 244 and to identify parts in kit 1017, CD4020, CD4023, CD4024, 1046, CD4050, CD4051, CD4069, 1081, CD4093, CD4511, CD4538, CD4	1543, CD	4584 1	10

	low. Call	us to see	if you can save 10-20%.			
4000	Series (	Continu	ued) DIP	s	oic 🔪	TO THE PERSON NAMED IN
Part No.	Cross Ref.	Pkg.	Description	1	10	100
13485CH	CD4510N	DIP-16	BCD up/down counter		\$.30	\$.23
13493CH	CD4511N*	DIP-16	BCD to 7-seg. latch/decoder/driver	-	.59	.49
197421CH		SOIC-16	BCD to 7-seg. latch/decoder/driver\$.42		.33	.25
13514CH	CD4512N	DIP-16	8-channel data selector		.365	.277
13522CH 13549CH	CD4514N	DIP-24 DIP-16	4-bit latch/4-16 line decoder		.79	.64
13549CH 13565CH	CD4516N CD4518N	DIP-16 DIP-16	Binary up/down counter		.40 .25	.30 .23
13581CH	CD4516N CD4520N	DIP-16	Dual BCD up counter  Dual binary up counter		.28	.23
13590CH	CD4520N CD4522N	DIP-16	Program. BCD divide-by-N counter \$-85		.26	.19
13602CH	CD4522N CD4526N	DIP-16	Divide-by-N counter (binary)		.39	.31
13611CH	CD4528N	DIP-16	Dual monostable multivibrator		.73	.55
13653CH	CD4528N*	DIP-16	Dual precision monostable multivibrator		.73	.34
197430CH		SOIC-16	Dual precision monostable multivibrator \$-5		.329	.249
13688CH	CD4536WI	DIP-14	Oscillator/programmable timer \$2		.20	.15
13696CH	CD4541N*	DIP-14	BCD to 7-segment decoder (LCD)		.45	.29
13709CH	CD4553N	DIP-16	3-digit BCD counter			1.88
354600CH		DIP-16	Dual 1-4 decoder/demultiplexer		.274	.227
354618CH		DIP-16	Dual 1-4 decoder/demultiplexer		.349	.265
13768CH	CD4530	DIP-10	Hex Schmitt trigger (74C14) 40106		.35	.203
197448CH		SOIC-14	Hex Schmitt trigger (74C14) 40106\$3		.24	(.18)
44257CH	CD4304W	DIP-14	Hex inverter Schmitt trigger (74C14)		.465	.288
354589CH		DIP-14	Quad L to H volt. level shifter		.415	.378
	4000 series IC				.713	.570
	Series (	, cabillet ki	t, below			
Part No.	Cross Ref.	Pkg.	Description	1	IP ''''' 10	100
48979CH	7400N**	DIP-14	Quad 2-input NAND gate	\$.65	\$.55	\$.45
49007CH	7401N	DIP-14	Quad 2-input NAND gate (O.C.)		.57	.54
49015CH	7402N*	DIP-14	Quad 2-input NOR gate		.56	.45
49040CH	7404N**	DIP-14	Hex inverter		.49	.45
49074CH	7405N*	DIP-14	Hex inverter (O.C.)	69	.54	.38
49091CH	7406N**	DIP-14	Hex inverter buffer/driver (O.C.)	52	.45	.40
49120CH	7407N**	DIP-14	Hex buffer/driver (O.C.)	40	.37	.32
49146CH	7408N*	DIP-14	Quad 2-input AND gate	82	.63	.48
49189CH	7410N*	DIP-14	Triple 3-input NAND gate	40	.36	.25
295777CH	7411N	DIP-16	Triple 3-input AND gate	99	.89	.80
49402CH	7413N	DIP-14	Dual 4-input NAND gate Schmitt trigger	1.25	1.12	1.01
49437CH	7414N*	DIP-14				.50
49630CH		DII II	Hex inverter Schmitt trigger	59	.54	.00
49728CH	7416N*	DIP-14	Hex inverter Schmitt trigger		.54 .44	.33
E0000011	7416N* 7417N*		99	52		
50008CH		DIP-14	Hex inverter buffer/driver (O.C.)	52	.44	.33
50008CH 50083CH	7417N*	DIP-14 DIP-14	Hex inverter buffer/driver (O.C.)	52	.44 .77	.33 .58 .45 .72
	7417N* 7420N* 7425N 7427N	DIP-14 DIP-14 DIP-14	Hex inverter buffer/driver (O.C.)	52 91 56 78	.44 .77 .52	.33
50083CH	7417N* 7420N* 7425N	DIP-14 DIP-14 DIP-14 DIP-14	Hex inverter buffer/driver (O.C.)  Hex buffer/driver (O.C. hi-voltage)  Dual 4-input NAND gate  Dual 4-input NOR gate with strobe	52 91 56 78 68	.44 .77 .52 .75	.33 .58 .45 .72
50083CH 50139CH	7417N* 7420N* 7425N 7427N 7428N 7432N*	DIP-14 DIP-14 DIP-14 DIP-14	Hex inverter buffer/driver (O.C.)  Hex buffer/driver (O.C. hi-voltage)  Dual 4-input NAND gate  Dual 4-input NOR gate with strobe  Triple 3-input NOR gate  Quad 2-input NOR buffer  Quad 2-input OR gate	52 91 56 78 68 76	.44 .77 .52 .75	.33 .58 .45 .72 .43 .48 .56
50083CH 50139CH 50198CH 50235CH 50315CH	7417N* 7420N* 7425N 7427N 7428N 7432N* 7438N*	DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14	Hex inverter buffer/driver (O.C.)  Hex buffer/driver (O.C. hi-voltage)  Dual 4-input NAND gate  Dual 4-input NOR gate with strobe  Triple 3-input NOR gate  Quad 2-input NOR buffer  Quad 2-input OR gate  Quad 2-input NAND buffer (O.C.)	52 91 56 78 68 76 74	.44 .77 .52 .75 .58 .65 .64	.33 .58 .45 .72 .43 .48 .56
50083CH 50139CH 50198CH 50235CH	7417N* 7420N* 7425N 7427N 7428N 7432N* 7438N* 7440N	DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14	Hex inverter buffer/driver (O.C.)  Hex buffer/driver (O.C. hi-voltage)  Dual 4-input NAND gate  Dual 4-input NOR gate with strobe  Triple 3-input NOR gate  Quad 2-input NOR buffer  Quad 2-input OR gate  Quad 2-input NAND buffer (O.C.)  Dual 4-input NAND buffer	52 91 56 78 68 76 74 70	.44 .77 .52 .75 .58 .65	.33 .58 .45 .72 .43 .48 .56
50083CH 50139CH 50198CH 50235CH 50315CH	7417N* 7420N* 7425N 7425N 7427N 7428N 7432N* 7438N* 7440N 7442N	DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14	Hex inverter buffer/driver (O.C.)  Hex buffer/driver (O.C. hi-voltage)  Dual 4-input NAND gate  Dual 4-input NOR gate with strobe  Triple 3-input NOR gate  Quad 2-input NOR buffer  Quad 2-input OR gate  Quad 2-input NAND buffer (O.C.)  Dual 4-input NAND buffer  BCD-to-decimal decoder	52 91 56 78 68 76 74 70 55 1.29	.44 .77 .52 .75 .58 .65 .64	.33 .58 .45 .72 .43 .56 .46 .35
50083CH 50139CH 50198CH 50235CH 50315CH 50358CH 50374CH 50403CH	7417N* 7420N* 7425N 7425N 7427N 7428N 7432N* 7438N* 7440N 7442N 7445N	DIP-14 DIP-16 DIP-16	Hex inverter buffer/driver (O.C.)  Hex buffer/driver (O.C. hi-voltage)  Dual 4-input NAND gate  Dual 4-input NOR gate with strobe  Triple 3-input NOR gate  Quad 2-input NOR buffer  Quad 2-input OR gate  Quad 2-input NAND buffer (O.C.)  Dual 4-input NAND buffer  BCD-to-decimal decoder	52 91 56 78 68 76 74 70 55 1.29 1.19	.44 .77 .52 .75 .58 .65 .64 .60 .47 1.02	.33 .58 .45 .72 .43 .56 .46 .35 .84
50083CH 50139CH 50198CH 50235CH 50315CH 50358CH 50374CH 50403CH 50411CH	7417N* 7420N* 7425N 7427N 7428N 7432N* 7438N* 7440N 7442N 7445N 7446N	DIP-14 DIP-16 DIP-16	Hex inverter buffer/driver (O.C.)  Hex buffer/driver (O.C. hi-voltage)  Dual 4-input NAND gate  Dual 4-input NOR gate with strobe  Triple 3-input NOR gate  Quad 2-input NOR buffer  Quad 2-input OR gate  Quad 2-input NAND buffer (O.C.)  Dual 4-input NAND buffer  BCD-to-decimal decoder  BCD-to-7 segment decoder/driver	52 91 56 78 68 76 74 70 55 1.29 1.19 2.09	.44 .77 .52 .75 .58 .65 .64 .60 .47 1.02 1.05	.33 .58 .45 .72 .43 .48 .56 .46 .35 .84 .91
50083CH 50139CH 50198CH 50235CH 50315CH 50358CH 50374CH 50403CH 50411CH 50420CH	7417N* 7420N* 7425N 7427N 7428N 7432N* 7438N* 7440N 7442N 7445N 7446N 7447N*	DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-16 DIP-16 DIP-16	Hex inverter buffer/driver (O.C.)  Hex buffer/driver (O.C. hi-voltage)  Dual 4-input NAND gate  Dual 4-input NOR gate with strobe  Triple 3-input NOR gate  Quad 2-input NOR buffer  Quad 2-input NOR buffer  Quad 2-input NAND buffer (O.C.)  Dual 4-input NAND buffer  BCD-to-decimal decoder  BCD-to-decimal decoder/driver  BCD-to-7 segment decoder/driver  BCD-to-7 segment decoder/driver	52 91 56 78 68 76 74 70 55 1.29 1.19 2.09	.44 .77 .52 .75 .58 .65 .64 .60 .47 1.02 1.05 1.95	33 .58 .45 .72 .43 .48 .56 .46 .35 .84 .91 1.89 .99
50083CH 50139CH 50198CH 50235CH 50315CH 50358CH 50374CH 50403CH 50411CH 50420CH 50518CH	7417N* 7420N* 7425N 7425N 7427N 7428N 7432N* 7448N* 7440N 7442N 7445N 7446N 7447N* 7470N*	DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-16 DIP-16 DIP-16 DIP-16 DIP-16	Hex inverter buffer/driver (O.C.)  Hex buffer/driver (O.C. hi-voltage)  Dual 4-input NAND gate  Dual 4-input NOR gate with strobe  Triple 3-input NOR gate  Quad 2-input NOR buffer  Quad 2-input OR gate  Quad 2-input NAND buffer (O.C.)  Dual 4-input NAND buffer (O.C.)  BCD-to-decimal decoder  BCD-to-decimal decoder/driver  BCD-to-7 segment decoder/driver  BCD-to-7 segment decoder/driver  Edge-triggered JK flip-flop	52 91 56 78 68 76 74 70 55 1.29 1.19 2.09 1.49 81	.44 .77 .52 .75 .58 .65 .64 .60 .47 1.02 1.05 1.95 1.29	33 .58 .45 .72 .43 .48 .56 .46 .35 .84 .91 1.89 .99
50083CH 50139CH 50198CH 50235CH 50315CH 50358CH 50374CH 50403CH 50411CH 50420CH 50518CH 50526CH	7417N* 7420N* 7425N 7427N 7428N 7438N* 7440N 74445N 7445N 7446N 7447N* 7470N*	DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-16 DIP-16 DIP-16 DIP-16 DIP-16 DIP-14 DIP-14 DIP-14	Hex inverter buffer/driver (O.C.)  Hex buffer/driver (O.C. hi-voltage)  Dual 4-input NAND gate  Dual 4-input NOR gate with strobe  Triple 3-input NOR gate  Quad 2-input NOR buffer  Quad 2-input NAND buffer  Quad 2-input NAND buffer (O.C.)  Dual 4-input NAND buffer (O.C.)  ECD-to-decimal decoder  BCD-to-decimal decoder/driver  BCD-to-7 segment decoder/driver  BCD-to-7 segment decoder/driver  Edge-triggered JK flip-flop  AND gated JK master/slave flip-flop	52 91 56 78 68 76 74 70 55 129 119 209 149 81 225	.44 .77 .52 .75 .58 .65 .64 .60 .47 1.02 1.05 1.95 1.29 .69	33 58 45 72 43 48 .56 .66 .91 1.89 .99 .52 1.43
50083CH 50139CH 50198CH 50235CH 50315CH 50358CH 50403CH 50411CH 50420CH 50518CH 50526CH 50534CH	7417N* 7420N* 7425N 7427N 7428N 7432N* 7438N* 7440N 7445N 7446N 7447N* 7470N* 7472N 7473N	DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-16 DIP-16 DIP-16 DIP-16 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-16	Hex inverter buffer/driver (O.C.)  Hex buffer/driver (O.C. hi-voltage)  Dual 4-input NAND gate  Dual 4-input NOR gate with strobe  Triple 3-input NOR gate  Quad 2-input NOR buffer  Quad 2-input NAND buffer  Quad 2-input NAND buffer (O.C.)  Dual 4-input NAND buffer (O.C.)  Dual 4-input NAND buffer meter (D.C.)  ECD-to-decimal decoder  BCD-to-decimal decoder/driver  BCD-to-7 segment decoder/driver  BCD-to-7 segment decoder/driver  Edge-triggered JK filp-flop  AND gated JK master/slave filp-flop  Dual JK flip-flop with clear	52 91 56 78 68 76 70 55 1.29 1.19 2.09 1.49 81 2.25	.44 .77 .52 .75 .58 .65 .64 .60 .47 1.02 1.05 1.95 1.29 .69	33 58 45 72 43 .56 .46 .35 .84 .91 1.89 .99 .52 1.43 .68
50083CH 50139CH 50198CH 50235CH 50315CH 50358CH 5043CH 50411CH 50420CH 50518CH 50526CH 50534CH 50551CH	7417N* 7420N* 7425N 7427N 7428N 7432N* 7438N* 7440N 7445N 7446N 7447N* 7470N* 7472N 7473N 7474N**	DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-16 DIP-16 DIP-16 DIP-16 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14	Hex inverter buffer/driver (O.C.)  Hex buffer/driver (O.C. hi-voltage)  Dual 4-input NAND gate  Dual 4-input NOR gate with strobe  Triple 3-input NOR gate  Quad 2-input NOR buffer  Quad 2-input NAND buffer  Quad 2-input NAND buffer (O.C.)  Dual 4-input NAND buffer (O.C.)  BCD-to-decimal decoder  BCD-to-7 segment decoder/driver  BCD-to-7 segment decoder/driver  Edge-triggered JK flip-flop  AND gated JK master/slave flip-flop  Dual JK flip-flop with clear  Dual D flip-flop	52 91 56 78 68 76 55 1.29 1.19 2.09 1.49 81 2.25 99	.44 .77 .52 .75 .58 .65 .64 .60 .47 1.02 1.05 1.95 1.29 .69 1.91	33 .58 .45 .72 .43 .56 .46 .91 1.89 .99 .52 1.43 .68 .39
50083CH 50139CH 50198CH 50235CH 50315CH 50358CH 5043CH 50411CH 50420CH 50518CH 50526CH 50534CH 50551CH 50577CH	7417N* 7420N* 7425N 7427N 7428N 7432N* 7438N* 7440N 7442N 7445N 7446N 7447N* 7470N* 7472N 7473N 7474N** 7475N	DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-16 DIP-16 DIP-16 DIP-14	Hex inverter buffer/driver (O.C.)  Hex buffer/driver (O.C. hi-voltage)  Dual 4-input NAND gate  Dual 4-input NOR gate with strobe  Triple 3-input NOR gate  Quad 2-input NOR buffer  Quad 2-input NOR buffer  Quad 2-input NAND buffer (O.C.)  Dual 4-input NAND buffer  BCD-to-decimal decoder  BCD-to-decimal decoder/driver  BCD-to-7 segment decoder/driver  BCD-to-7 segment decoder/driver  Edge-triggered JK flip-flop  AND gated JK master/slave flip-flop  Dual JK flip-flop with clear  Dual D flip-flop  4-bit bi-stable latch	52 91 56 78 68 74 70 55 1.29 1.19 2.09 1.49 81 2.25 99 2.95	.44 .77 .52 .75 .58 .65 .64 .60 .47 1.02 1.05 1.95 1.29 .69 1.91 .86 .49 2.75	33 .58 .45 .72 .43 .56 .46 .91 1.89 .99 .52 1.43 .68 .39 2.49
50083CH 50139CH 50198CH 50235CH 50315CH 50358CH 50403CH 50403CH 50411CH 50518CH 50526CH 50534CH 50551CH 50577CH 50593CH	7417N* 7420N* 7425N 7427N 7428N 7432N* 7448N* 74440N 7442N 7445N 7446N 7447N* 7470N* 7472N 7473N 7474N** 7475N 7476N	DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-16 DIP-16 DIP-16 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-16	Hex inverter buffer/driver (O.C.)  Hex buffer/driver (O.C. hi-voltage)  Dual 4-input NAND gate  Dual 4-input NOR gate with strobe  Triple 3-input NOR gate  Quad 2-input NOR buffer  Quad 2-input OR gate  Quad 2-input NAND buffer (O.C.)  Dual 4-input NAND buffer (O.C.)  Dual 4-input NAND buffer  BCD-to-decimal decoder  BCD-to-decimal decoder/driver  BCD-to-7 segment decoder/driver  BCD-to-7 segment decoder/driver  Edge-triggered JK flip-flop  AND gated JK master/slave flip-flop  Dual JK flip-flop with clear  Dual D flip-flop  4-bit bi-stable latch  Dual JK flip-flop with preset and clear	52 91 56 78 68 76 70 55 1.29 1.19 2.09 1.49 81 2.25 99 2.95	.44 .77 .52 .75 .58 .65 .64 .60 .47 1.02 1.05 1.95 1.29 .69 1.91 .86 .49 2.75	33 58 .45 .72 .43 .48 .56 .35 .84 .91 .99 .52 .1.43 .68 .39 .2.49 .37
50083CH 50139CH 50198CH 50235CH 50315CH 50358CH 50403CH 50403CH 50420CH 50518CH 50526CH 50534CH 50551CH 50577CH 50593CH 50631CH	7417N* 7420N* 7425N 7427N 7428N 7432N* 7448N* 74440N 7442N 7445N 7447N* 7470N* 7472N 7473N 7474N** 7476N 7483N	DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-16 DIP-16 DIP-16 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-16	Hex inverter buffer/driver (O.C.)  Hex buffer/driver (O.C. hi-voltage)  Dual 4-input NAND gate  Dual 4-input NOR gate with strobe  Triple 3-input NOR gate  Quad 2-input NOR buffer  Quad 2-input NAND buffer  Quad 2-input NAND buffer (O.C.)  Dual 4-input NAND buffer  BCD-to-decimal decoder  BCD-to-decimal decoder/driver  BCD-to-7 segment decoder/driver  Edge-triggered JK flip-flop  AND gated JK master/slave flip-flop  Dual JK flip-flop with clear  Dual D flip-flop  4-bit bi-stable latch  Dual JK flip-flop with preset and clear  4-bit binary full adder	52 91 56 78 68 76 70 55 1.29 1.19 2.09 1.49 59 2.95 1.49	.44 .77 .52 .75 .68 .65 .64 .60 .47 1.02 1.05 1.29 .69 1.91 .86 .49 2.75	333 588 .455 .722 .433 .566 .345 .844 .911 .999 .522 .143 .39 .249 .37 .79
50083CH 50139CH 50198CH 50235CH 50315CH 50358CH 50403CH 50403CH 50420CH 50518CH 50526CH 50534CH 50551CH 50577CH 50593CH 50631CH 50657CH	7417N* 7420N* 7425N 7427N 7428N 7432N* 7448N* 74440N 7442N 7445N 7446N 7447N* 7470N* 7473N 7474N** 7476N 7483N 7485N*	DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-16 DIP-16 DIP-16 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-16	Hex inverter buffer/driver (O.C.)  Hex buffer/driver (O.C. hi-voltage)  Dual 4-input NAND gate  Dual 4-input NOR gate with strobe  Triple 3-input NOR gate  Quad 2-input NOR buffer  Quad 2-input NAND buffer (O.C.)  Dual 4-input NAND buffer  BCD-to-decimal decoder  BCD-to-decimal decoder/driver  BCD-to-7 segment decoder/driver  BCD-to-7 segment decoder/driver  Edge-triggered JK flip-flop  AND gated JK master/slave flip-flop  Dual JK flip-flop with clear  Dual JK flip-flop with preset and clear  4-bit bin-stable latch  Dual JK flip-flop with preset and clear  4-bit binary full adder	52 91 56 78 68 76 74 55 1.29 2.09 1.49 81 2.25 99 2.95 1.49	.44 .77 .52 .75 .58 .65 .64 .60 .47 1.02 1.05 1.29 .69 .69 2.75 1.41 .91	333 588 .455 .722 .433 .566 .355 .844 .911 .899 .999 .999 .249 .249 .249 .279 .279 .279 .279 .279 .279 .279 .27
50083CH 50139CH 50198CH 50235CH 50315CH 50358CH 50403CH 50411CH 50420CH 50518CH 50534CH 50551CH 50577CH 50593CH 50657CH 50657CH 50627CH	7417N* 7420N* 7425N 7425N 7427N 7428N 7432N* 7448N* 74440N 7442N 7445N 7446N 7447N* 7470N* 7473N 7474N** 7476N 7483N 7485N* 7430N*	DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-16 DIP-16 DIP-16 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-16	Hex inverter buffer/driver (O.C.)  Hex buffer/driver (O.C. hi-voltage)  Dual 4-input NAND gate  Dual 4-input NOR gate with strobe  Triple 3-input NOR gate with strobe  Triple 3-input NOR gate  Quad 2-input NOR buffer  Quad 2-input NAND buffer (O.C.)  Dual 4-input NAND buffer  BCD-to-decimal decoder  BCD-to-decimal decoder/driver  BCD-to-7 segment decoder/driver  BCD-to-7 segment decoder/driver  Edge-triggered JK flip-flop  AND gated JK master/slave flip-flop  Dual JK flip-flop with clear  Dual D flip-flop  4-bit bi-stable latch  Dual JK flip-flop with preset and clear  4-bit binary full adder  4-bit magnitude comparator  8-input NAND gate	52 91 56 68 76 70 55 1.29 1.19 2.09 1.49 81 2.25 99 59 2.95 1.05	.44 .77 .52 .75 .58 .65 .64 .60 .47 1.02 1.05 1.29 .69 1.91 .86 .49 2.75 1.41 .91	333 588 .455 .722 .433 .566 .355 .844 .911 .899 .999 .999 2.49 1.37 .79 .79 .566 .363 .363 .363 .364 .364 .365 .365 .365 .365 .365 .365 .365 .365
50083CH 50139CH 50198CH 50235CH 50315CH 50358CH 50403CH 50411CH 50420CH 50518CH 50526CH 50534CH 5057CH 50593CH 50657CH 50657CH 506227CH 50665CH	7417N* 7420N* 7425N 7425N 7427N 7428N 7432N* 7448N* 74440N 7442N 7445N 7446N 7447N* 7470N* 7474N** 7476N 7483N 7485N* 7430N* 7486N	DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-16 DIP-16 DIP-16 DIP-14 DIP-14 DIP-14 DIP-14 DIP-16 DIP-17	Hex inverter buffer/driver (O.C.)  Hex buffer/driver (O.C. hi-voltage)  Dual 4-input NAND gate  Dual 4-input NOR gate with strobe  Triple 3-input NOR gate  Quad 2-input NOR buffer  Quad 2-input NAND buffer (O.C.)  Dual 4-input NAND buffer  BCD-to-decimal decoder  BCD-to-decimal decoder/driver  BCD-to-7 segment decoder/driver  BCD-to-7 segment decoder/driver  Edge-triggered JK flip-flop  AND gated JK master/slave flip-flop  Dual JK flip-flop with clear  Dual JK flip-flop with clear  Dual JK flip-flop with preset and clear  4-bit bi-stable latch  Dual JK flip-flop with preset and clear  4-bit binary full adder  4-bit magnitude comparator  8-input NAND gate  Quad EXCLUSIVE-OR gate	52 91 56 68 76 70 55 1.29 1.19 2.09 1.49 81 2.25 99 59 2.95 1.49 1.05 93	.44 .77 .52 .75 .68 .65 .64 .60 .47 1.02 1.05 1.95 .1.29 .69 1.91 .86 .49 2.75 1.41 .91	333 588 .455 .722 .433 .566 .355 .844 .91 1.899 .999 .999 2.499 2.499 1.37 .79 .79 .566 .646
50083CH 50139CH 50198CH 50235CH 50315CH 50358CH 50403CH 50411CH 50420CH 50518CH 50526CH 50534CH 50577CH 50577CH 50631CH 50657CH 50657CH 50665CH 50665CH	7417N* 7420N* 7425N 7425N 7427N 7428N 7432N* 7448N* 74440N 74445N 74446N 7447N* 7470N* 7473N 7474N** 7476N 7483N 7485N* 7486N 7489N	DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-16 DIP-16 DIP-16 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-16	Hex inverter buffer/driver (O.C.)  Hex buffer/driver (O.C. hi-voltage)  Dual 4-input NAND gate  Dual 4-input NOR gate with strobe  Triple 3-input NOR gate  Quad 2-input NOR buffer  Quad 2-input NAND buffer (O.C.)  Dual 4-input NAND buffer  BCD-to-decimal decoder  BCD-to-decimal decoder/driver  BCD-to-7 segment decoder/driver  BCD-to-7 segment decoder/driver  Edge-triggered JK flip-flop  AND gated JK master/slave flip-flop  Dual JK flip-flop with clear  Dual JK flip-flop with clear  Dual JK flip-flop with preset and clear  4-bit bin-stable latch  Dual JK flip-flop with preset and clear  4-bit binary full adder  4-bit magnitude comparator  8-input NAND gate  Quad EXCLUSIVE-OR gate  64-bit RAM P 50ns	52 91 56 68 76 70 55 1.29 1.19 2.09 1.49 81 2.25 99 59 2.95 1.05 93 56 1.05 3.49	.44 .77 .52 .75 .68 .65 .64 .60 .47 1.02 1.05 1.95 .1.29 .69 1.91 .86 .49 2.75 1.41 .91 .76 .48 .85 3.19	333 588 .455 .722 .433 .646 .911 1.899 .999 .522 .49 1.37 .79 .566 .644 .64
50083CH 50139CH 50198CH 50235CH 50315CH 50358CH 50374CH 50420CH 50518CH 50526CH 50534CH 5057CH 5057CH 50657CH 50657CH 50657CH 50657CH 50657CH 50665CH 50681CH 50690CH	7417N* 7420N* 7425N 7427N 7428N 7432N* 7438N* 7440N 7442N 7445N 7446N 7447N* 7470N* 7472N 7474N** 7476N 7483N 7485N* 7486N 7489N 7490N	DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-16 DIP-16 DIP-16 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-16	Hex inverter buffer/driver (O.C.)  Hex buffer/driver (O.C. hi-voltage)  Dual 4-input NAND gate  Dual 4-input NOR gate with strobe  Triple 3-input NOR gate  Quad 2-input NOR buffer  Quad 2-input NAND buffer  Quad 2-input NAND buffer (O.C.)  Dual 4-input NAND buffer (O.C.)  BCD-to-decimal decoder  BCD-to-decimal decoder/driver  BCD-to-7 segment decoder/driver  BCD-to-7 segment decoder/driver  BCD-to-7 segment decoder/driver  BCD-to-7 segment decoder/driver  BCD-to-8 JK flip-flop  AND gated JK master/slave flip-flop  Dual JK flip-flop with clear  Dual D flip-flop  4-bit bi-stable latch  Dual JK flip-flop with preset and clear  4-bit binary full adder  4-bit magnitude comparator  8-input NAND gate  Quad EXCLUSIVE-OR gate  64-bit RAM P 50ns  Decade counter	52 91 56 78 68 76 70 55 1.29 1.19 2.09 59 1.49 1.05 99 1.05 93 56 1.05 3.49	.44 .77 .52 .75 .68 .65 .64 .60 .1.02 1.05 1.95 1.29 .69 1.91 .86 .49 2.75 1.41 .91 .76 .48 .85 3.19	333 558 .455 .722 433 .488 .566 .646 .911 1.899 .999 .522 1.437 .797 .566 .646 .691 .691 .691 .692 .693 .694 .695
50083CH 50139CH 50198CH 50235CH 50315CH 50358CH 50374CH 50420CH 50518CH 50526CH 50534CH 50551CH 50557CH 50657CH 50657CH 50665CH 50681CH 50690CH 50737CH	7417N* 7420N* 7425N 7427N 7428N 7428N 7438N* 7440N 7445N 7445N 7446N 7447N* 7470N* 7472N 7473N 7474N** 7476N 7485N* 7486N 7489N 7490N 7492N	DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-16 DIP-16 DIP-16 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-16 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14	Hex inverter buffer/driver (O.C.)  Hex buffer/driver (O.C. hi-voltage)  Dual 4-input NAND gate  Dual 4-input NOR gate with strobe  Triple 3-input NOR gate  Quad 2-input NOR buffer  Quad 2-input OR gate  Quad 2-input NAND buffer (O.C.)  Dual 4-input NAND buffer (O.C.)  BCD-to-decimal decoder/driver  BCD-to-7 segment decoder/driver  BCD-to-7 segment decoder/driver  BCD-to-7 segment decoder/driver  BCD-to-8 segment decoder/driver  BCD-to-9 segment decoder/driver  BCD-to-10-10-10-10-10-10-10-10-10-10-10-10-10-	52 91 56 78 68 76 70 55 1.29 1.19 2.09 1.49 81 2.25 99 59 2.95 59 2.95 59	.44 .77 .52 .75 .68 .65 .64 .60 .47 1.05 1.95 1.29 .69 1.91 .86 .49 2.75 1.41 .91 .76 .85 3.19	333 588 .455 .722 .433 .488 .566 .464 .567 .844 .911 .899 .999 .522 .143 .688 .399 .497 .797 .797 .646 .6
50083CH 50139CH 50198CH 50235CH 50315CH 50358CH 50374CH 50420CH 50518CH 50526CH 50534CH 5057CH 5057CH 50657CH 50657CH 50657CH 50657CH 50657CH 50665CH 50681CH 50690CH	7417N* 7420N* 7425N 7427N 7428N 7432N* 7438N* 7440N 7442N 7445N 7446N 7447N* 7470N* 7472N 7474N** 7476N 7483N 7485N* 7486N 7489N 7490N	DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-16 DIP-16 DIP-16 DIP-14 DIP-14 DIP-14 DIP-14 DIP-14 DIP-16	Hex inverter buffer/driver (O.C.)  Hex buffer/driver (O.C. hi-voltage)  Dual 4-input NAND gate  Dual 4-input NOR gate with strobe  Triple 3-input NOR gate  Quad 2-input NOR buffer  Quad 2-input NAND buffer  Quad 2-input NAND buffer (O.C.)  Dual 4-input NAND buffer (O.C.)  BCD-to-decimal decoder  BCD-to-decimal decoder/driver  BCD-to-7 segment decoder/driver  BCD-to-7 segment decoder/driver  BCD-to-7 segment decoder/driver  BCD-to-7 segment decoder/driver  BCD-to-8 JK flip-flop  AND gated JK master/slave flip-flop  Dual JK flip-flop with clear  Dual D flip-flop  4-bit bi-stable latch  Dual JK flip-flop with preset and clear  4-bit binary full adder  4-bit magnitude comparator  8-input NAND gate  Quad EXCLUSIVE-OR gate  64-bit RAM P 50ns  Decade counter	52 91 56 78 68 76 70 55 129 119 209 149 81 225 99 105 105 105 105 105 105	.44 .77 .52 .75 .68 .65 .64 .60 .1.02 1.05 1.95 1.29 .69 1.91 .86 .49 2.75 1.41 .91 .76 .48 .85 3.19	333 558 .455 .722 433 .488 .566 .646 .911 1.899 .999 .522 1.437 .797 .566 .646 .691 .691 .691 .692 .693 .694 .695



\*\*20 pcs. in 7400 series IC cabinet kit, pg 31

\*10 pcs. in 7400 series IC cabinet kit, pg 31  $^{\circ}$ 

not shown below. Call us to see if you can save 10-20%.

.070 ( 01 :	Cross Ref.	Pkg.	Description 1	10	100
50796CH	7497N	DIP-16	Synch. 6-bit binary rate multipliers \$2.49	\$2.11	\$1.55
49234CH	74107N*	DIP-14	Dual JK flip-flop with clear45	.38	.28
49293CH	74116N	DIP-24	Dual 4-bit latches with clear 1.95	1.65	1.25
49322CH	74121N	DIP-14	Monostable multivibrator 1.15	1.05	.91
49349CH	74122N	DIP-14	Retriggerable mono. multivibrator w/ clear 1.02	1.00	.98
49357CH	74123N*	DIP-16	Dual retriggerable mono. multivibrator 1.15	1.09	.90
49373CH	74125N	DIP-14	Quad bus buffer tri-state (DM8093N) 1.11	.99	.86
49411CH	74132N*	DIP-14	Quad 2-input NAND Schmitt trigger 1.29	.99	.70
49496CH	74148N	DIP-16	8 to 3 line octal priority encoder 1.24	1.05	.79
49509CH	74150N	DIP-24	16 to 1 line multiplexer 1.95	1.75	1.55
49525CH	74151N*	DIP-16	8-input multiplexer	.55	.41
49550CH	74153N*	DIP-16	Dual 4/1 data selector/multiplexer	.56	.39
49568CH	74154N	DIP-24	4 to 16 line decoder/demultiplexer 2.25	1.95	1.75
49605CH	74157N*	DIP-16	Quad 2/1 data selector	.72	.51
49648CH	74160N*	DIP-16	Decade counter with asynch. clear45	.40	.36
49664CH	74161N	DIP-16	Synchronous 4-bit counter	.63	.50
49672CH	74163N	DIP-16	Synchronous 4-bit counter	.69	.52
49681CH	74164N	DIP-14	8-bit serial shift register	.72	.54
49699CH	74165N	DIP-16	8-bit serial shift register, parallel load99	.84	.63
49779CH	74174N*	DIP-16	Hex D-type flip-flop with clear99	.84	.63
49795CH	74175N*	DIP-16	Quad D-type flip-flop with clear	.72	.54
49832CH	74180N	DIP-14	9-bit odd/even parity generator/checker 2.89	2.46	1.84
49841CH	74181N	DIP-24	Arithmetic logic unit/function generator 3.29	2.96	2.66
49883CH	74189N	DIP-16	64-bit RAM tri-state (DM8599N) 3.39	2.89	2.17
49904CH	74191N	DIP-16	Binary up/down counter 1.85	1.57	1.18
49912CH	74192N	DIP-16	Decade up/down counter with clear 3.69	3.39	3.19
49939CH	74193N	DIP-16	Binary up/down counter with clear 1.85	1.59	1.45
49955CH	74194N	DIP-16	4-bit bi-directional shift register 1.59	1.35	1.01
49963CH	74195N	DIP-16	4-bit parallel-access shift register 1.65	1.40	1.05
50171CH	74279N*	DIP-16	Quad set-reset latch 1.79	1.52	1.14
88225CH	SDLD001A		Texas Instruments TTL Data Book 34.95	31.49	29.95
00223017			it, below		

30 adhesive labels for drawers to identify parts in kit

**10** each: 7402, 7405, 7408, 7410, 7414, 7416, 7417, 7420, 7430, 7432, 7438, 7447, 7470, 7485, 7495, 74107, 74123, 74132, 74151, 74153, 74157, 74160, 74174, 74175, 74279

20 each: 7400, 7404, 7406, 7407, 7474

Part No. Description Wt. (lbs.) 6.2 ..... \$149.95 **84953CH** 350 pcs. 7400 IC kit \$134.95

74C S	eries		1	DIP 📆	777111
Part No.	Cross Ref.	Pkg.	Description 1	10	100
44222CH	74C00N	DIP-14	Quad 2-input NAND gate\$1.15	\$.98	\$.73
44231CH	74C04N	DIP-14	Hex inverter (CD4069) 1.05	.89	.67
44257CH	74C14N	DIP-14	Hex inverter Schmitt trigger (CD40106)49	.465	.288
44441CH	74C74N	DIP-14	Dual D flip-flop	1.44	1.08
44361CH	74C221N	DIP-16	Dual monostable multivibrator 3.69	3.19	2.50
13469CH	74C367N	DIP-16	Hex buffer tri-state (80C97/CD4503)28	.25	.22
44396CH	74C373N	DIP-20	Octal D-type flip-flop with clear tri-state 3.85	3.11	2.44
44409CH	74C374N	DIP-20	Octal D-type flip-flop tri-st. (INS82C06N) 2.15	1.83	1.37
44564CH	74C922N	DIP-18	16-key keyboard encoder (INS8245N) 7.05	6.79	6.19
44572CH	74C923N	DIP-20	20-key keyboard encoder (INS8246N) 5.99	5.09	3.86
44581CH	74C925N	DIP-16	4-digit CTR w/ MUX D segment driver 14.15	12.05	9.05
44599CH	74C926N	DIP-18	4-digit CTR w/ MUX D segment driver 10.49	9.49	8.59

	<i>1</i> 45 S	eries			DI	Р 🎢	mm
į	Part No.	Cross Ref.	Pkg.	Description	1	10	100
	48531CH	74S188N	DIP-16	256-bit (32 x 8) PROM O.C. (27S18) \$	\$4.39	\$3.95	\$3.45
	48557CH	74S189N	DIP-16	64-bit (16 x 4) RAM tri-state (27S03)	3.99	3.90	3.86
	48696CH	74S287N	DIP-16	1k-bit (256 x 4) PROM tri-state (TBP24S10)	8.95	7.85	7.09
	48717CH	74S288N	DIP-16	256-bit (32 x 8) PROM tri-st. (TBP18S030N)	7.39	6.39	5.49

74S S	eries (0	Continu	ıed)	D	IP 🎢	MM
Part No.	Cross Ref.	Pkg.	Description	1	10	100
48805CH	74S387N	DIP-16	1k-bit (256 x 4) PROM O.C. (TBP24SA10N)	\$3.09	\$2.79	\$2.55
52513CH	74S428N	DIP-28	System contr./bus driver (8228)	3.69	3.19	2.36
48864CH	74S472N	DIP-20	4k-bit (512 x 8) PROM tri-st. (TBP28S42N)	12.95	11.65	10.49
48910CH	74S571N	DIP-16	2k-bit (512 x 4) PROM tri-st. (AM27S13)	5.69	5.45	4.95
48928CH	74S573N	DIP-18	4k-bit (1024 x 4) PROM tri-st. (53S441J) .	3.39	2.89	2.59
	<u> </u>				Ø	

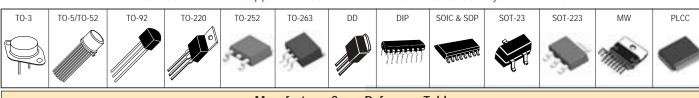
9000	Series			DIF	1	PPPY
Part No.	Cross Ref.	Pkg.	Description	1	10	100
53663CH	9368	DIP-16	7 segment driver/latch\$4	.49	3.95	\$3.55
10567CH	AM9513APC <b>4</b>	DIP-40	System timing counter 39.	.95	35.95	31.85
♣ Pull = Ex	xtra Savings					

DAI SEMICO	DANDUCTOR DA	ıllas	Semiconductor DIP (1997)	soic 🔪	CCCCCCCCC
Part No.	Product No.	Pkg.	Description 1	10	100
114198CH	DS1210	DIP-8	Nonvolatile controller chip \$4.19	\$3.37	\$2.27
114219CH	DS1213C	DIP-28	SmartSocket 64K/256k 19.99	15.55	12.25
133410CH	DS1216C	DIP-28	Smartwatch/RAM 64K/256k 31.89	27.69	19.99
114331CH	DS1232	DIP-8	Micromonitor chip 2.05	1.56	1.21
133444CH	DS1286♣	DIP-28	Watchdog timekeeper (50-Byte RAM) 23.95	18.25	12.70
76646CH	DS1287♣	DIP-24	Real time clock with RAM (MC146818A) 7.25	6.15	4.59
176778CH	DS1302	DIP-8	Trickle charge time keeping IC 2.75	2.10	1.28
114374CH	DS1387♣	DIP-24	RAMified real time clock 4k x 8 8.59	7.99	7.25
114382CH	DS1620	DIP-8	Digital thermometer and thermostat 6.29	5.05	3.49
245500CH	DS1705ESA	SOIC-8	3.3V and 5V micromonitor 1.99	1.48	1.09
282749CH	DS1708ESA	SOIC-8	3.3V and 5V micromonitor 2.05	1.55	1.19
133452CH	DS12887♣	DIP-24	Real time clock chip 8.15	6.25	4.15
299997CH	DS12887A	DIP-24	Real time clock chip 8.15	6.22	4.15
114403CH	DS80C320-MCG	DIP-40	High speed micro 25MHz 13.15	10.42	6.25
♣ Pull = Ex	tra Savings				

MPU :	Sup	ervisor	y		Pack	age (se	e pg 32)
Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
106219CH	+	MAX690CPA	DIP-8	Microprocessor watchdog/battery	\$5.99	\$5.05	\$3.13
106227CH	+	MAX691CPE	DIP-16	Microprocessor watchdog/battery	. 6.25	4.21	3.16
288403CH	+	MAX693CPE	DIP-16	Microprocessor watchdog/battery	. 6.49	3.86	3.22
297684CH	MAX	MAX694CPA	DIP-8	Microprocessor supervisory circuit	6.59	3.86	3.26
297748CH	MAX	MAX695CPE	DIP-16	Low cost MPU supervisory circuit .	. 7.15	5.82	5.24
312418CH	MAX	MAX699CPA	DIP-8	Low-cost power on reset & watchdog	4.15	3.46	3.28
243627CH	+	MAX705CPA	DIP-8	MPU supervisory circuit \$4.95	<sup>5</sup> 4.15	3.46	2.24
243635CH	+	MAX705CSA	SOIC-8	Low cost MPU supervisory circuit .	. 4.59	4.10	2.45
297705CH	MAX	MAX706CPA	DIP-8	Low cost MPU supervisory circuit .	. 4.99	3.99	3.59
251774CH	MAX	MAX707CPA	DIP-8	Low cost MPU supervisory circuit .	. 4.15	3.48	2.20
251758CH	MAX	MAX707CSA	SOIC-8	Low cost MPU supervisory circuit .	. 4.29	3.59	2.50
298020CH	+	MAX734CPA	DIP-8	12V, 120mA flash memory prog	. 3.69	3.49	3.32
298046CH	+	MAX734CSA	SOIC-8	12V, 120mA flash memory prog	. 2.55	2.21	2.07
266861CH	+	MAX809T	SOT-23	3-pin microprocessor reset circuit .	50	.38	.29
245391CH	+	MAX810S	SOT-23	3-pin microprocessor reset circuit .	80	.69	.66
245497CH	MAX	MAX813LCSA	SOIC-8	Low cost MPU supervisory circuit .	. 2.99	2.55	1.77
106260CH	+	MAX1232CPA	DIP-8	Microprocessor monitor	. 3.09	2.45	1.67
282677CH	+	DS1233-5	SOT-223	5V econoreset, CPU supervisory	. 1.25	.91	.74
290221CH	+	DS1233D-5	TO-92	5V econoreset, CPU supervisory	. 1.25	1.05	.99
282651CH	+	DS1233M-5	TO-92	5V econoreset, CPU supervisory	. 1.15	1.00	.90
282685CH	+	DS1233-10	TO-92/4	5V econoreset, CPU supervisory	. 1.25	1.10	.99
313971CH	ANA	AP1701DW	SOT-23	3-pin microprocessor reset circuit .	72	.545	.40
		AP1702DW	SOT-23	3-pin microprocessor reset circuit .		.325	.305
		DS1708SESA		3.3V micromonitor		1.47	1.38
298089CH	MAX	DS1811-5	TO-92	5V econoreset w/ open drain output	.99	.69	.60
298118CH	MAX	DS1811-10	TO-92	5V econoreset w/ open drain output	1.01	.68	.63
298100CH	MAX	DS1811-15	TO-92	5V econoreset w/ open drain output	.99	.75	.73
309930CH	NSC	LM3722EM5-4.63	SOT-23	5-pin microprocessor reset circuit .	. 2.55	1.90	1.60

Powe	r IVI	anagem	ent	Package (se	e <b>pg 32)</b>
Part No.	Mfr.	Cross Ref.	Pkg.	Description 1	25
291670CH	+	MAX712CPE	DIP-16	NiCD/NiMH battery fast chrg cntrllr\$6.99	\$5.36
312979CH	+	NCP1800DM42R2	2 SOIC-8	Li-Ion battery charger 1.59	1.47

**309913CH** NSC LM3722IM5-3.08 SOT-23 5-pin microprocessor reset circuit .. **2.15 1.61** 



	Manufacturer Cross Reference Table								
Manufacturer	Code	Manufacturer	Code	Manufacturer	Code	Manufacturer	Code	Manufacturer	Code
Analog Devices	ADI	Linear Technology	LTC	Microchip	MCH	On Semi	ON	Texas Instruments	TI
Anachip	ANA	Maxim Corporation	MAX	National Semiconductor	NSC	ST Micro	ST	Jameco Value Offerin	g <b>+</b>
				1		•			

Power	r M	lanagem	ent (	(Continued)	Package (see	above)
Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	25
312821CH	+	BQ2003S	SOIC-16	Fast Charge IC	\$4.49	\$3.65
312848CH	TI	BQ2004PN	DIP-16	NiMH/NiCd switchmode charge mgmt w/ neg dV.	4.49	3.79
312830CH	TI	BQ2004SN	SOIC-16	NiMH/NiCd switchmode charge mgmt w/ neg dV	4.49	3.79
312901CH	TI	BQ2010SN-D107	SOIC-16	Gas Gauge IC	6.99	6.47
312899CH	TI	BQ2013HSN-A514	SOIC-16	Gas Gauge IC	6.75	6.25
312856CH	TI	BQ2014SN-D120	SOIC-16	NiMH/NiCd gas gauge w/ 1-wire (DQ) i/f	6.99	6.47
312928CH	TI	BQ2018TS-E1	TSSOP-8	Rechargeable battery power monitor	3.89	3.29
312936CH	TI	BQ2019PW	TSSOP-8	Rechargeable battery power monitor	3.99	3.35
312881CH	TI	BQ2040SN-D111	SOIC-16	Li-Ion/NiMH/NiCD gas gauge w/ smbus	6.99	6.47
312961CH	+	UC3906N	DIP-16	Linear lead acid battery charger	4.99	4.49
312944CH	TI	BQ24004PWP	TSSOP-20	Li-Ion battery charger	3.69	3.10
312952CH	+	TPS65010RGZR	QFN-48	Li-Ion battery charger w/ USB + 12C	7.05	6.67
241808CH	+	ICL7665SCPA	DIP-8	2-16V voltage detector	2.45	2.20
241816CH	+	ICL7673CPA	DIP-8	Auto battery backup switch, 2.5V to 15V	1.05	.93

142535CH	Mfr.	Cross Ref.	Pkg.	Description 1	10	100
172333011	+	HIN202CP	DIP-16	+5V RS-232 trans. requires 0.1μF caps <b>\$2.65</b>	\$2.10	\$1.36
244232CH	+	MAX202CSE	SOIC-16	+5V RS-232 trans. w/ 0.1uF ext. caps 1.55	1.25	1.15
244241CH	+	MAX202EPE	DIP-16	+5V RS-232 transceivers1.13	.99	.88
244259CH	+	MAX202ESE	SOIC-16	+5V RS-232 trans. w/ 0.1uF ext. caps $\textbf{1.13}$	.99	.88
299794CH	MAX	MAX207CWG	SOIC-24	RS-232 transceivers w/ 0.1uF ext. cap ${\bf 3.65}$	2.77	2.00
282790CH	+	MAX211CAI	SSOP-28	+5V RS-232 trans. w/ 0.1uF ext. caps 6.59	5.04	3.46
312215CH	+	MAX211ECAI	SSOP-28	+5V RS-232 trans., $\pm 15$ kV ESD8.05	5.25	4.14
291215CH	+	MAX222CPN	DIP-18	+5V multichannel RS-232 drivers/recvr 3.49	3.39	3.18
291303CH	+	MAX222CWN	SOIC-18	+5V multichannel RS-232 drivers/recvr 3.89	3.09	2.08
24811CH	+	MAX232CPE*	DIP-16	Dual RS-232 receiver/transmitter 2.19	1.85	1.4
318959CH	MAX	MAX232CPE	DIP-16	Dual RS-232 receiver/transmitter 2.89	1.77	1.49
06147CH	+	MAX232CWE	SOIC-16	+5V dual RS-232 trans./receiver $\boldsymbol{2.75}$	2.10	1.36
256401CH	+	MAX232DR	SOIC-16	Dual EIA-232 driver/receiver	.66	.63
06155CH	+	MAX232EPE	DIP-16	+5V dual RS-232 (-40°C to +85°C) 3.29	2.52	1.63
06163CH	+	MAX233CPP	DIP-20	+5V multichannel RS-232 driver/rec. 6.19	4.99	4.66
106171CH	+	MAX235CPG	DIP-24	+5V five RS-232 driver/receiver $13.39$	10.51	6.7
06180CH	+	MAX238CNG	DIP-24	+5V quad RS-232 driver/receiver 6.29	4.79	3.2
76883CH	+	MAX323CDWR	SOIC-20	True 3V-5.5V RS-232 trans.w/ autoshtdwn 1.69	1.61	1.4
93691CH	+	DS1488D	SOIC-14	Quad line driver RS-232 (75188D)41	.33	.2
3157CH	+	DS1488N*	DIP-14	Quad line driver RS-232 (75188N)27	.23	.1
6361CH	+	DS14C88N	DIP-14	Quad CMOS line driver RS-23257	.50	.4
93703CH	+	DS1489D	SOIC-14	Quad line receiver RS-232 (75189D)41	.33	.2
23181CH	+	DS1489N*	DIP-14	Quad line receiver RS-232 (75189N)23	.215	.20
6379CH	+	DS14C89N	DIP-14	Quad CMOS line receiver RS-232 1.00	.73	.5
252128CH	+	MAX3221CAE	SSOP-16	RS-232 transceiver w/ auto shutdown $2.29$	1.99	1.6
77042CH	+	MAX3221ECAE	SSOP-16	True 3V-5.5V RS-232 trans. w/ autoshtdwn ${\bf 2.65}$	2.27	2.13
99760CH	+	MAX3222CAP	SSOP-20	True RS-232 low power trans ${\bf 3.35}$	2.69	1.83
76963CH	+	MAX3222CDBR	SSOP-20	3V-5.5V, low pwr RS-232 trans 2.09	1.94	1.7
76859CH	+	MAX3232CDR	SOIC-16	3V-5.5V, true RS-232 transceiver $\boldsymbol{1.69}$	1.61	1.4
76867CH	+	MAX3232CSE	SOIC-16	3V-5.5V, true RS-232 transceiver $\boldsymbol{3.69}$	2.94	1.8
76795CH	+	MAX3238CDBR	SSOP-28	3V5.5V, true RS-232 w/ autoshtdwn 1.85	1.73	1.5
76824CH	+	MAX3238IDBR	SSOP-28	3V5.5V, true RS-232 w/ autoshtdwn 2.19	1.96	1.7
76761CH	+	MAX3243CDWR	SOIC-28	True 3V-5.5V RS-232 trans.w/ autoshtdwn 1.37	1.27	1.1
	+	MAX3243IDWR	SOIC-28	True 3V-5.5V RS-232 trans.w/ autoshtdwn 1.69	1.61	1.4
276779CH						

RS-23	2 D	rivers/R	eceiv	<b>/ers (Con't)</b> ssop	ackaç	ge (see a	above
Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
235301CH	+	DS14C232CN	DIP-16	Low pwr +5V TIA/EIA 232 dual driv/recvr \$	1.09	\$.91	\$.86
277982CH	+	SN75185DW	SOIC-20	Multiple RS-232 drivers/receivers	.79	.60	.45
256081CH	+	SN75185N	DIP-20	Multiple RS-232 drivers/receivers	.69	.60	.50
245366CH	+	SN75C188D	SOIC-14	Quad low power line driver	.56	.42	.32
23181CH	+	SN75189N	DIP-14	Quad line rec. RS-232 (DS1489N)	.23	.215	.20
245374CH	+	SN75C189D	SOIC-14	Quad low power line receiver	.84	.71	.56
278205CH	+	TL145406N	DIP-16	Triple RS-232 drivers/receivers	.97	.88	.73
25099CH	+	MC145406P	DIP-16	RS232-C/V.28 driv./rec. (CMOS) (75C1406N) 1	1.95	1.75	1.59

RS-422/485 Receivers Package (see above										
Part No.	Mfr.	Cross Ref.	Pkg.	Description	1 10	100				
299815CH	LTC	LTC485CS8	SOIC-8	RS-485 low power interface trans \$2.1	5 \$1.84	\$1.73				
299807CH	LTC	LTC485CN8	DIP-8	RS-485 low power interface trans 2.0	9 1.39	1.15				
276605CH	MAX	MAX490CSA	SOIC-8	Low pwr, slew-rate limited RS-485/422 2.5	5 1.95	1.25				
276576CH	MAX	MAX490CPA	DIP-8	Low pwr, slew-rate limited RS-485/422 2.5	5 2.05	1.83				
276550CH	MAX	MAX491CPD	DIP-14	Low pwr, slew-rate limited RS-485/422 2.5	5 2.05	1.85				
311837CH	MAX	MAX1480BEPI	DIP-28	Complete iso. RS485-422 data interface 28.7	5 22.29	21.18				
244179CH	ADI	ADM1485JN	DIP-8	RS-485 differential bus transceivers 2.0	5 1.83	1.65				
244187CH	ADI	ADM1485JR	SOIC-8	RS-485 differential bus transceivers 1.7	5 1.48	1.25				
235310CH	+	DS1487N	DIP-8	Low pwr RS-485 1/4 unit load recvr 1.7	5 1.49	1.12				
244195CH	+	MAX1487CPA	DIP-8	RS-485/RS-422 low-power transceivers 2.3	9 1.99	1.31				
244208CH	+	MAX1487CSA	SOIC-8	RS-485/RS-422 low-power transceivers 2.3	5 1.99	1.53				
39571CH	+	AM26LS30	DIP-16	Dual diff RS422 party line Qd RS423 line driv 2.3	9 2.05	1.76				
39589CH	+	AM26LS31CN	DIP-16	Quad diff line driver	1 .54	.43				
243555CH	+	AM26LV31CD	SOP-16	RS-422 quad differential line trans \$1.15 .7	2 .55	.41				
39600CH	+	AM26LS32CN	DIP-16	Quad diff line receiver RS422/4236	4 .57	.429				
272217CH	+	DS26LS32ACN	DIP-16	Quad diff line receiver6	6 .50	.38				
242051CH	+	AM26LV32CD	SOP-16	RS-422 quad differential line receivers 1.0	5 .92	.55				
252427CH	+	MC3486D	SOIC-16	Quad EIA-422/423 line rec. w/ 3-st. outputs .6	6 .50	.38				
25232CH	+	MC3486P	DIP-16	Quad EIA-422/423 line rec. w/ 3-st. outputs6	6 .56	.38				
252961CH	+	MC3487D	SOIC-16	Quad EIA-422 differential line driver6	5 .50	.38				
25259CH	+	MC3487P	DIP-16	Quad EIA-422 line driver w/ 3-state outputs6	6 .56	.38				
298142CH	NSC	DS3691M	SOIC-16	RS-422/423 line drivers w/ 3-state outputs 1.9	9 1.48	1.11				
298134CH	NSC	DS3691N	DIP-16	RS-422/423 line drivers w/ 3-state outputs $1.1$	0 .99	.83				
144039CH	NSC	DS3695N	DIP-8	Multipoint RS-485/422 trans. w/ 3-st. outputs 1.7	5 1.32	.99				
235336CH	NSC	DS3696N	DIP-8	Multipoint RS-485/RS-422 trans./repeaters 2.2	9 1.71	1.28				
299671CH	NSC	DS8921AN	DIP-8	RS-422 differential line driver/receiver pair 1.5	9 .98	.86				
298169CH	NSC	DS8921M	SOIC-8	RS-422 differential line driver/receiver pair 1.4	5 1.10	.83				
299701CH	NSC	DS8922AM	SOIC-16	RS-422 dual differential line driver/receiver pair 1.5	9 1.19	.90				
299719CH	NSC	DS8922AN	DIP-16	RS-422 dual differential line driver/receiver pair 1.5	9 1.19	.89				
299727CH	NSC	DS8923AM	SOIC-16	RS-422 dual differential line driver/receiver pair 1.6	5 1.22	.92				
309753CH	NSC	DS8923AN	DIP-16	Dual RS-422 diff. line driver/rec. pairs 1.6	5 1.25	.93				
235344CH	NSC	DS36C278N	DIP-8	Low pwr multipoint EIA RS-485 transceiver 2.6	9 2.25	2.15				
241980CH	TI	SN75LBC172N	DIP-16	RS-485 differential line drivers 4.3	9 3.81	2.75				
241998CH	TI	SN75LBC173N	DIP-16	RS-422/RS-423/RS-485 diff. line rec. $\ldots3.0$	5 2.62	2.46				
50948CH	+	SN75174N	DIP-16	Quad diff. RS-422 line driver w/ 3-st. out $\dots$ 7	6 .74	.63				
245340CH	+	SN75175D	SOIC-16	Quad differential line receivers	1 .60	.50				
50956CH	+	SN75175N	DIP-16	Quad diff. EIA 422A/423A line rec. w/3-st. out .7	2 .56	.45				
243707CH	TI			Quadruple low power diff. line receiver 1.8		1.17				
243715CH	TI	SN75LBC175N	DIP-16	RS-422/RS-423/RS-485 diff. line rec\$2.85 2.6	5 2.47	2.32				
50964CH	+	SN75176BN	DIP-8	Differential bus transceiver6	5 .55	.45				
251053CH	TI	SN75LBC176AD	SOIC-8	Differential bus transceiver 3.0	9 2.71	1.99				
244136CH	TI	SN75LBC176AP	DIP-8	RS-485 differential bus transceivers 2.9	5 2.79	1.99				
251846CH	TI	SN75LBC176D	SOIC-8	Differential bus transceiver RS485 1.5	9 1.31	.86				

\*10 pcs. in Linear series IC cabinet kit, pg 37

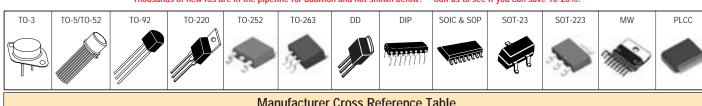
RS-422/485 Receivers (Continued) Package (see									
Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100		
243723CH	TI	SN75LBC176P	DIP-8	RS-485 differential bus transceivers	\$2.15	\$1.99	\$1.75		
235387CH	NSC	DS96172CN	DIP-16	RS-485/RS-422 quad diff. line drivers	3.59	3.26	2.96		
235361CH	NSC	DS96173CN	DIP-16	RS-485/RS-422 quad diff. line recvrs	2.09	1.89	1.71		
235395CH	NSC	DS96174CN	DIP-16	RS-485/RS-422 quad diff. line drivers	2.45	2.12	1.45		
235379CH	NSC	DS96175CN	DIP-16	RS-485/RS-422 quad diff. line rec	. 1.99	1.52	1.38		
235408CH	NSC	DS96176CN	DIP-8	RS-485/RS-422 diff. bus transceivers	1.79	1.59	1.19		

233373611	NSC			K3-465/K3-422 quad uiii. Iiile urivers		2.12	
235379CH				RS-485/RS-422 quad diff. line rec			
235408CH	NSC	DS96176CN	DIP-8	RS-485/RS-422 diff. bus transceivers	1.79	1.59	1.19
							_
Interf	ace	Series		DIP A	1	soic *	THE PROPERTY OF
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Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	
310498CH	TI	XTR101AP	DIP-14	Low-drift precision 2-wire trans \$1			
310501CH		XTR101AU		Low-drift precision 2-wire trans 1			
	TI	XTR105AP		4-20mA current transmitter			
310703CH		L294		Switch mode solenoid driver		2.63	
310738CH		L295		Dual switch mode solenoid driver			
116206CH	+	TC426CPA	DIP-8	Dual 1.5A hi speed pwr MOSFET driver			
245593CH		TC426EOA		Dual 1.5A hi speed pwr MOSFET driver	_		
242077CH	+	TC428CPA	DIP-8	Dual MOSFET 1.5A driver \$1.3			
242085CH		MAX626CPA		Dual 1.5A-peak low-side MOSFET driver			_
242093CH	+	MAX627CPA	DIP-8	Dual MOSFET driver		.94	.70
246692CH	+	LT1030N	DIP-14	Quad low power line driver	1.11	.93	.76
310754CH	+	TC1426COA	SOIC-8	1.2A dual high-speed MOSFET drivers .	68	.66	.64
310771CH		TC1426CPA		1.2A dual high-speed MOSFET drivers .			
12239CH	+	CA3161E	DIP-16	BCD to 7-seg. decoder driver			
310480CH		MC33152D	SOIC-8	Dual high-speed MOSFET drivers			
310439CH		MC33152P	DIP-8	Dual high-speed MOSFET drivers			.85
25216CH	NSC	MC3479P	DIP-16	Biphase stepper motor driver	3.99	3.39	2.69
24230CH	NSC	LM3914N	DIP-18	Bar-graph display driver	2.55	2.15	1.99
300003CH	NSC	LM3914N-1	DIP-18	Dot/bar display driver	1.65	1.54	1.38
246625CH	NSC	LM3914V	PLCC-20	Dot/bar display driver	2.59	2.18	1.68
24256CH	NSC	LM3915N	DIP-18	3 dB steps bar-graph disp. driver	2.49	1.99	1.55
24272CH	NSC	LM3916N	DIP-18	VU meter display driver	2.19	1.65	1.22
291320CH	+	MIC4420CM	SOIC-8	6A-peak low side MOSFET driver	1.05	1.03	.90
291434CH	+	MIC4420CN	DIP-8	6A-peak low side MOSFET driver	1.29	1.15	1.05
251029CH	+	TC4420COA	SOIC-8	6A high speed MOSFET drivers	1.45	1.25	1.18
310965CH	+	TC4422CPA	DIP-8	9A high-speed MOSFET drivers	2.49	1.62	1.52
310800CH	+	TC4422EPA	DIP-8	9A high-speed MOSFET drvr, extended temp.	2.45	1.54	1.44
291590CH	+	MIC4427CM	SOIC-8	Dual 1.5A-peak low side MOSFET drvr	1.15	1.05	.94
312207CH	+	MIC4429CM	SOIC-8	6A-peak low-side MOSFET driver	99	.87	.82
291645CH	+	MIC4429CN	DIP-8	6A-peak low side MOSFET driver	1.45	1.28	1.21
243379CH	+	MM5453N	DIP-40	Liquid crystal display driver	3.65	2.80	2.16
314691CH	+	ICL7136CPL	DIP-40	3 1/2 digit LCD LP display driver	4.89	4.65	4.42
313453CH	+	ICM7211AMIPL	DIP-40	4-digit LCD display driver	2.89	2.62	2.39
313437CH	+	ICM7218AIJI	DIP-28	8-digit LED $\mu P$ multi display decoder drvr	4.95	3.86	3.45
313445CH	+	ICM7218BIJI	DIP-28	8-digit LED $\mu P$ multi display decoder drvr	7.39	7.04	6.68
312160CH	MAX	MAX7219CNG	DIP-24	Serially interfaced 8-digit LED display drvr	9.09	7.90	7.50
312178CH	MAX	MAX7219CWG	SO-24	Serially interfaced 8-digit LED display drvr	9.09	7.90	7.50
313322CH	+	ICM7228AIPI	DIP-28	8-digit µP compatible LED display decoder drvr	4.45	3.71	3.15
241875CH	+	FAN8082	DIP-8	Bi-directional, 18V DC motor driver	70	.52	.47
241867CH	+	FAN8200	DIP-14	Bi-directional, 2-ch, 9V stepper motor dryr			.64
213170CH	+	UA9636A	DIP-8	Dual differential line receiver (MC3488A)\$	.39	.35	.32
256727CH	TI	SN65LVDS31D	SOIC-16	High speed differential line driver	2.95	2.36	1.86
256719CH	TI	SN65LVDS048AD	SOIC-16	LVDS quad differential line receiver	3.15	2.72	2.55
272188CH	TI	SN65LVDS050D	SOIC-16	High speed diff. line driver/receiver	3.99	3.48	3.13
241824CH	+	MC14489BP	DIP-20	5V, LED display/lamp driver	4.29	3.75	3.52
287831CH	+	MC14489BDW	SOG-20	5V LED driver, 5 digit / 25 lamps	3.39	3.19	3.05
50884CH	+	SN75154N	DIP-16	Quad line receiver	75	.57	.428
277907CH	+	SN75172N		Quad differential line driver			.69
245331CH	+	SN75173D	SOIC-16	Quadruple differential line receiver			.70
50930CH	+	SN75173N	DIP-16	Quadruple differential line receiver \$1.	<sup>15</sup> .99	.96	.91
277958CH	+	SN75179BD	SOIC-8	Differential driver and receiver pair			.65
277940CH	+	SN75179BP	DIP-8	Differential driver and receiver pair	67	.61	.52
278133CH	TI	SN75LBC180AN	DIP-14	Low pwr diff. line driver/receiver pairs	2.15	1.94	1.75
277966CH	+	SN75182N	DIP-14	Dual differential line receivers			.55

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shown be	low. Call u	ıs to see	if you can save	10-20%.			
Interf	ace Ser	ies (	Continued)	DIP		soic 🔻	encence of
Part No.	Mfr. Cross I		g. Description	,	1		10
277974CH	◆ SN751		•	ntial line drivers			\$.7
51027CH		51AN DI		eral AND driver			.2
51035CH	◆ SN754	152N DI		eral NAND driver			(.3
278002CH	♦ SN754	53BP D		eral OR drivers			.2
277317CH	♦ SN754	54BP D	IP-8 Dual periph	eral NOR drivers	39	.30	.2
277430CH	♦ SN754	62P D	IP-8 Dual periph	eral NAND drivers	62	.47	.3
278037CH	◆ SN754	71P D	IP-8 Dual periph	eral AND driver	63	.47	.3
278053CH	◆ SN754	72P D	IP-8 Dual periph	eral NAND driver	54	.42	.3
278061CH	◆ SN754	77P D	IP-8 Dual periph	eral NAND driver	56	.44	.3
51131CH	◆ SN754	192P DI	P-14 Hex digit dr	iver (492)	3.45	3.00	2.8
310746CH	◆ SN751	177N D	IP-16 Dual differe	ntial drivers/receive	rs <b>2.75</b>	2.39	2.3
253083CH	◆ SN751	730N DI	P-16 Triple line d	river/receiver	2.35	1.90	1.5
ē:lab.	Digita	l Int	orfaco ICs			<b>/</b>	20.00 E
Part No.	Product No.		erface ICs		1	DIP '\'\'\ 10	mm
323969CH		Pkg. DIP-8	Description Social stopper m	otor controller			\$10.4
	EDEFT639/P	DIP-8		otor controller			8.4
323977CH		DIP-8		ontroller			8.4
171951CH		DIP-18		ace			6.7
321710CH		DIP-28		LED display decod			6.7
321728CH		DIP-24		der/driver			4.1
321701CH		DIP-28	_	rsal keypad encode			6.7
171969CH		DIP-18					5.0
141532CH		DIP-18	, ·	motor controller			5.9
157526CH		DIP-18		motor controller			5.9
321736CH		DIP-18		ncer w/ 8-independen		4.65	4.1
	EDE2108A	DIP-20		cher single channel			4.1
	EDE2108D	DIP-20	_	her act/deact			4.1
321761CH	EDE2208/P	DIP-18	_	omentary to toggle			3.7
324005CH	EDE8744	DIP-28		oad and 2x40 LCD dr			10.6
5000	Sorios 8	. Cloc	k Chips			0010	errerere
				DIP (	,,,,,,,		
Part No. 32803CH	Cross Ref. TCM5089N	Pkg. DIP-16	Description Integrated tone of	dialer chip	\$4 99	10 \$4.49	\$3 99
26091CH	MM5321N			nronous generator			4.95
26171CH	MM5450N			display driver			2.39
86799CH	LM555CM					.21	.18
27422CH	LM555CN**			P/NE555V)			.19
	LMC555CN*	DIP-8	•			.49	.44
24328CH	LM556N*						.42
	DP8573AN			k chip			9.59
26201CH				real time clock			2.85
95530CH	RTC72421B	DIP-18	Real time clock i	module	6.79		4.17
25101CH	MC146818♣			olus RAM			3.15
	Linear series I	C cabinet	kit, pg 37 **20	0 pcs. in Linear serie	es IC cabinet	kit, pg 37	
♣ Pull = Ex	tra Savings						
UARTS	S			DIP	THIN	PLCC	im
Part No.	Cross Ref.	Pkg.	Description		1	10	10
43158CH	6402♣	DIP-40		RT (TR1863)		\$4.49	\$4.0
27570CH	NS16C450N	DIP-40		I-AT compat.) (82C45		1.93	1.5
	TL16C450FN			annel w/o FIFO		2.12	1.6
	TI 16C/E1EN	DI CC	58 5V UART, 1-cha	annel w/o FIFO, parall	el port 4.39		2.7
288761CH							
288770CH	TL16C452FN	PLCC-		nnel w/o FIFO, parall		3.59	
288770CH 27596CH	TL16C452FN NS16550AN	PLCC-0	UART w/ FIFO	(PC16550DN)	5.89	4.49	3.3
288770CH 27596CH 288796CH	TL16C452FN NS16550AN• TL16C550CFN	PLCC-6  PLCC-6	UART w/ FIFO 44 5V UART, 1-ch	(PC16550DN)annel w/ FIFO, ACF	5.89 3.09	4.49 2.49	1.9
288770CH 27596CH 288796CH 288809CH	TL16C452FN NS16550AN• TL16C550CFN TL16C550CN	PLCC-4 PLCC-4 DIP-40	UART w/ FIFO 44 5V UART, 1-ch 5V UART, 1-ch	(PC16550DN)annel w/ FIFO, ACF	5.89 3.09 3.09	4.49 2.49 2.49	3.3 1.9 1.9
288770CH 27596CH 288796CH 288809CH 288825CH	TL16C452FN NS16550AN• TL16C550CFN TL16C550CN TL16C552AFN	PLCC-4 DIP-40 PLCC-4 DIP-40 PLCC-6	UART w/ FIFO 44 5V UART, 1-ch 5V UART, 1-ch 68 5V UART, 2-ch	(PC16550DN) annel w/ FIFO, ACF annel w/ FIFO, ACF annel, bicentronics	5.89 3.09 3.09 port 5.99	4.49 2.49 2.49 4.85	1.9 1.9 4.0
288770CH 27596CH 288796CH 288809CH 288825CH 288841CH	TL16C452FN NS16550AN• TL16C550CFN TL16C550CN TL16C552AFN TL16C554FN	PLCC-40 PLCC-40 PLCC-40 PLCC-6	UART w/ FIFO 44 5V UART, 1-ch 5V UART, 1-ch 58 5V UART, 2-ch 68 5V UART, 4-ch	(PC16550DN) annel w/ FIFO, ACF annel w/ FIFO, ACF annel, bicentronics annel w/ 16B FIFO	5.89 3.09 3.09 port 5.99 9.95	4.49 2.49 2.49 4.85 9.45	3.3 1.9 1.9 4.0 8.9
288770CH 27596CH 288796CH 288809CH 288825CH 288841CH 288876CH	TL16C452FN NS16550AN• TL16C550CFN TL16C550CN TL16C552AFN TL16C554FN TL16C750FN	PLCC-4 PLCC-4 PLCC-4 PLCC-6 PLCC-6	UART w/ FIFO 44 5V UART, 1-ch 5V UART, 1-ch 68 5V UART, 2-ch 68 5V UART, 4-ch 44 5V UART, 1-ch	(PC16550DN) annel w/ FIFO, ACF annel w/ FIFO, ACF annel, bicentronics annel w/ 16B FIFO annel w/ 64B FIFO	5.89 	4.49 2.49 2.49 4.85 9.45 5.65	2.8 3.3 1.9 1.9 4.0 8.9 5.5
288770CH 27596CH 288796CH 288809CH 288825CH 288841CH 288876CH 288905CH	TL16C452FN NS16550AN• TL16C550CFN TL16C550CN TL16C552AFN TL16C554FN	PLCC-4 PLCC-4 PLCC-4 PLCC-6 PLCC-6	UART w/ FIFO 44 5V UART, 1-ch 5V UART, 1-ch 68 5V UART, 2-ch 68 5V UART, 4-ch 44 5V UART, 1-ch	(PC16550DN) annel w/ FIFO, ACF annel w/ FIFO, ACF annel, bicentronics annel w/ 16B FIFO	5.89 	4.49 2.49 2.49 4.85 9.45	3.3 1.9 1.9 4.0 8.9

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	Manufacturer Cross Reference Table										
Manufacturer	Code	Manufacturer	Code	Manufacturer	Code	Manufacturer	Code	Manufacturer	Code		
Analog Devices	ADI	Linear Technology	LTC	Microchip	MCH	On Semi	ON	Texas Instruments	TI		
Anachip	ANA	Maxim Corporation	MAX	National Semiconductor	NSC	ST Micro	ST	Jameco Value Offerino	<b>j</b> +		

Encod	Encoders/Decoders Package (see above							
Part No.	Cross Ref.	Pkg.	Description	1	10	100		
243942CH	HCS300	DIP-8	2-6.3V, Code hopping decoder\$1	.79	\$1.69	\$1.55		
243483CH	HCS512	DIP-18	3-6V, Code hopping decoder7		6.85	6.50		
243934CH	HCS515	DIP-14	3-6V, Code hopping decoder \$3.25 3	.05	2.89	2.75		
243951CH	HCS2000	DIP-8	3.5-13V, Code hopping decoder \$1.95 1	.65	1.53	1.45		
123730CH	HT12E	DIP-18	Encoder 12-bit 1	.69	1.49	1.29		
123748CH	HT12D	DIP-18	Decoder 8-bit address/4-bit data 1	.69	1.49	1.29		
126607CH	HT648L	DIP-24	Remote control decoder 2	.89	2.39	2.29		
243441CH	MCP2120	DIP-14	IrDA encoder/decoder 2	.15	2.05	1.95		
243459CH	MCP2150	DIP-18	IrDA standard protocol stack controller 7	.59	7.39	7.03		
243408CH	TP3054	DIP-16	5V serial PCM u-Law2	.39	1.79	1.49		
243416CH	TP3057	DIP-16	5V serial PCM A-Law2	.49	1.75	1.49		
243424CH	TP3064	DIP-20	5V serial PCM u-Law 3	.19	3.11	3.05		
243432CH	TP3067	DIP-20	5V serial PCM A-Law 2	.39	1.95	1.49		
289529CH	TLC320AC01CFN	PLCC-28	Audio codec, 14-bit, 1-channel, 25kHz 6	.99	6.85	6.60		
288745CH	TIR1000PWR	TSSOP-8	Standalone IrDA encoder/decoder 2	.25	2.19	2.05		
287937CH	MCP2120	SOIC-14	IrDA encoder/decoder1	.99	1.89	1.85		
287945CH	MCP2140-I/P	DIP-18	IrDA controller, + DTE/DCE endec 2	.29	2.26	2.17		
287953CH	MCP2140-I/SO	SOIC-18	IrDA controller, + DTE/DCE endec 2	.29	2.22	2.15		
287961CH	MCP2140-I/SS	SSOP-20	IrDA controller, + DTE/DCE endec 2	.39	2.35	2.27		
287970CH	MCP2150-I/S0	SOIC-18	IrDA standard protocol stack controller 6	.95	6.85	6.70		
291004CH	TP3054WM	SOIC-16	PCM codec, 1-ch., u-law, 2MHz 2	.25	1.75	1.35		
287849CH	MC145026D	SOIC-16	Encoder, 9-line, simplex, OSC 1	.99	1.27	1.15		
296702CH	MC145026P	DIP-16	Encoder, 9-line, simplex, OSC 1	.99	1.29	1.15		
287865CH	MC145027DW	SOIC-16	Decoder, 5-line, simplex, OSC2	.39	2.05	1.80		
296711CH	MC145027P	DIP-16	Decoder, 5-line, simplex, OSC2	.25	1.55	1.41		
296729CH	MC145028P	DIP-16	Decoder, 9-line simplex, OSC2	.75	1.85	1.69		
287873CH	MC145481DW	SOG-20	PCM codec, 13-bit, 1-ch., u-law/a-law 2	.69	2.49	2.35		
287881CH	MC145483SD	SSOP-20	PCM codec, 13-bit, 1-ch., u-law/a-law 3	.05	2.85	2.60		
287890CH	MC145484DW	SOIC-20	PCM codec, 13-bit, 1-ch., u-law/a-law 2	.39	1.65	1.55		
287902CH	MC145484SD	SSOP-20	PCM codec, 13-bit, 1-ch., u-law/a-law 2	.75	2.49	2.35		

### KAE Servo and Stepper Motor Controllers

Controllers operate from standard 8-bit serial interface (RS232 or RS485). Using RS485, any mix of up to 32 controllers may be operated from a single serial port. Complete documentation.

#### 146472CH: PIC-SERVO Motion Control Chipset for DC Motors

- PIC servo control for DC motors with digital encoders
   As hit position, valuable, and appellation receiving.
- 32-bit position, velocity, and acceleration resolution
- PWM and direction outputs connect to servo amplifier
- Two chip set (PIC-SERVO V.4, 28-pin and PIC-ENC V.1, 18-pin)

  175901CH

#### 175901CH: PIC-STEP Motion Control Chip for Stepper Motors

- Step rates up to 50,000 steps/sec. suitable for use with microstepping drivers
- Trapezoidal positioning and profiled velocity modes
- Programmable current limits automatically switch between holding and running currents
   Programmable accelerations and minimum step rates

#### 323934CH: PIC-SERVO SC Servo Motion Control I.C.

- Servo controller for DC motors (brush or brushless w/ incremental encoder feedback)
- Serial interface connects to RS232/485/422 communication port
- Position control, velocity control, trapezoidal profiling, plus step and direction inputs

Part No.	Description	Package 1	10	50
146472CH	PIC-SERVO chip set	DIP-28/18, 0.3" \$34.95	\$29.50	\$27.95
175901CH	PIC-STEP chip	DIP-28, 0.3" 25.75	21.75	19.75
323934CH	KAE-T01V10-DP	DIP-28, 0.3" 28.95	24.49	22.25

Stepp	er Mot	or Driv	ers/Controllers	Packa	ge (see	above)
Part No.	Cross Ref.	Pkg.	Description	1	10	100
288059CH	L292	Multiwatt-15	Switch mode DC motor drive, 36V, 36kHz	\$5.39	\$4.99	\$3.99
288067CH	L297/1	DIP-20	5V stepper motor controller	5.49	5.25	4.69
288075CH	L297D	SOIC-20	5V stepper motor controller	5.99	5.69	5.40
288083CH	L6201	SOIC-20	36V DMOS full bridge motor driver	7.79	7.19	6.45
288091CH	L6202	DIP-18	36V DMOS full bridge motor driver	7.85	6.39	5.79
288104CH	L6203	Multiwatt-11	36V DMOS full bridge motor driver	12.35	11.09	10.55
288112CH	L6506	DIP-18	5V stepper motor current controller	4.25	3.49	2.95
288121CH	L6506D	SOIC-20	5V stepper motor current controller	4.49	3.75	3.31

אטע	D/A Co	IIVCIU		Packa	ige (see	above
Part No.	Cross Ref.	Pkg.	Description	1	10	100
43748CH	7106CPL	DIP-40	A/D with 3 1/2-digit LCD control		\$2.99	\$2.49
43756CH	7107CPL	DIP-40	A/D with 3 1/2-digit LED control		2.59	2.19
	ICL7135CPI	DIP-28	4 1/2 digit precision A/D converter		4.70	4.02
	TLC540IDW		8-bit A/D w/ MUX, sample and hold, serial, 75kHz .		3.25	3.15
	TLC540IFN	PLCC-20	8-bit A/D w/ MUX, sample/hold, serial, 75kHz		3.29	3.15
289588CH		DIP-20	8-bit A/D w/ MUX, sample/hold, serial, 75kHz		3.15	2.99
	TLC541IDW	SOIC-20	8-bit A/D w/ MUX, sample/hold, serial, 40kHz		2.64	2.55
	TLC541IFN	PLCC-20	8-bit A/D w/ MUX, sample/hold, serial, 40kHz		2.45	1.95
289625CH		DIP-20	8-bit A/D w/ MUX, sample/hold, serial, 40kHz		2.69	2.55
	TLC542CDW		8-bit A/D w/ OSC., 25kHz		2.47	2.45
	TLC542CN	DIP-20	8-bit A/D w/ OSC., 25kHz		2.47	2.45
	TLC542IFN	PLCC-20	8-bit A/D w/ OSC., 25kHz		2.45	1.97
	TLC545CN	DIP-28	8-bit A/D w/ MUX, sample/hold, serial 76kHz .		5.35	5.25
289730CH		SOIC-8	8-bit A/D w/ sample/hold, 1-channel, 45kHz		2.25	2.20
	TLC548CP	DIP-8	8-bit A/D w/ sample/hold, 1-channel, 45kHz		1.99	1.69
	TLC549CD	SOIC-8	8-bit A/D w/ sample/hold, 1-channel, 45kHz		1.75	1.65
	TLC549CP	DIP-8	8-bit A/D w/ sample/hold, 1-channel, 45kHz		1.76	1.69
	TLV571IDW	SOIC-24	8-bit, 1-ch parallel A/D converter, 2.7V to 5.5V		4.09	3.99
	TLV571IPW		8-bit, 1-ch parallel A/D converter, 2.7V to 5.5V		4.09	3.99
10145CH	ADC0803LCN	DIP-20	8-bit A/D 1-input (±1/2 LSB), 100μs		4.15	3.65
10153CH	ADC0804LCN	DIP-20	8-bit A/D 1-input (±1 LSB), 100µs		1.89	1.39
10170CH	ADC0808CCN	DIP-28	8-bit A/D w/ 8-ch. mux. (±1/2 LSB), 100µs		4.19	3.43
10188CH	ADC0809CCN		8-bit A/D w/ 8-ch. mux. (±1 LSB), 100μs	2.89	2.59	1.99
10209CH	ADC0817CCN		8-bit A/D w/ 16-ch. mux. (±1/2 LSB), 100μs		6.65	5.95
10225CH	ADC0820CCN	DIP-20	8-bit hi spd (1/2µs) A/D w/ track&hold		2.29	2.10
	ADC0831CCN		8-bit A/D w/ mux. diff. input (±1 LSB), 32μs		1.75	1.59
	TLV0831CD	SOIC-8	8-bit A/D, multiplexer, serial, 49kHz		2.29	2.25
	TLV0831CP	DIP-8	8-bit A/D, multiplexer, serial, 49kHz		2.15	1.75
	TL0831CP	DIP-8	8-bit A/D, w/ serial control (±1 LSB), 32μs		2.55	2.45
	TLC0832CD	SOIC-8	8-bit A/D, multiplexer, serial, 45kHz		2.29	2.25
	TLV0832CP	DIP-8	8-bit A/D, multiplexer, serial, 45kHz		2.29	2.25
	TLV0834CD	SOIC-14	8-bit A/D, multiplexer, serial, 41kHz		2.25	1.79
	TLV0834IN	DIP-14	8-bit A/D, multiplexer, serial, 41kHz		2.57	2.50
	TLV0838CDW		8-bit A/D, mulitplexer, serial, 38kHz		2.39	2.35
	TLV0838IN	DIP-20	8-bit A/D, multiplexer, serial, 38kHz		2.55	2.50
287603CH			8-bit A/D (±1 LSB), 30MHz		4.60	4.00
	AD7226KN	DIP-20	8-bit A/D 4-input (±1 LSB), 5us		18.79	17.65
	AD7226KR	SOIC-28	8-bit A/D 4-input (±1 LSB), 5us		18.79	17.65
242296CH		DIP-20	10-bit A/D 11-inputs (±1 LSB), 38ksps		2.89	2.33
242309CH		DIP-20	10-bit A/D 1-input (±1 LSB), 38ksps		2.99	2.29
287591CH		SSOP-28	10-bit A/D, (±1LSB), 25MHz		6.25	5.90
	THS1030IDW		10-bit A/D, 30Msps parallel		7.05	6.75
288690CH	THS1031IDW	SOIC-28	10-bit A/D, 30Msps parallel	8.09	7.85	7.55



Part No.         Cross Ref.         Pkg.         Description         1         10         100           288729CH         THS1031IPW         TSSOP-28 10-bit A/D, 30Msps parallel         \$8.09         \$7.85         \$7.55           289001CH         TLC1541CDW         SOP-20         10-bit A/D, 11-input serial, 32kHz         6.05         5.75         5.45           28901PCH         TLC1541CN         DIP-20         10-bit A/D, 11-input serial, 32kHz         6.09         5.85         5.75           28902RCH         TLC1541CFN         PLCC-20         10-bit A/D, 11-input serial, 32kHz         4.65         4.09         3.49           289107CH         TLC1542CN         DIP-20         10-bit A/D, 11-input serial, 38kHz         4.65         4.09         3.49           28911CH         TLC1543CDN         SOP-20         10-bit A/D, 11-input serial, 38kHz         4.55         4.39         4.25           289131CH         TLC1543CDN         SOP-20         10-bit A/D, 11-input serial, 38kHz         4.05         3.25         3.05           289220CH         TLC1543CDN         SOP-20         10-bit A/D, 11-input serial, 38kHz         3.35         3.25         3.05           28923CHCH         TLC1543CDN         SOP-20         10-bit A/D, 11-input serial, 38kHz         4.05	A/D &	D/A Co	nvert	ers (Continued)			
289720CH TICSTATION TSSOP_28 10-bit AVD, 30Msps parallel						•	
2899120H T.C.1541CN DIP-20	-						
289072CH         TLC1541CFN         PLCC20         10-bit A/D, 11-input serial, 38kHz         5.79         5.99         5.39           289070CH         TLC1542CN         DP-20         10-bit A/D, 11-input serial, 38kHz         4.65         4.09         3.49           289113CH         TLC1543CNP         PLCC20         10-bit A/D, 11-input serial, 38kHz         4.55         4.39         4.25           28913CH         TLC1543CNP         PLCC20         10-bit A/D, 11-input serial, 38kHz         3.55         3.25         3.05           28922CH         TLC1543CNP         PLCC20         10-bit A/D, 11-input serial, 38kHz         3.35         3.25         3.05           28932OCH         TLC1543CNP         PLCC20         10-bit A/D, 11-input serial, 38kHz         3.05         3.25         3.09           28933OCH         TLC1543CNP         PLCC20         10-bit A/D, 11-input serial, 38kHz         3.09         3.79         3.75           28933OCH         TLC1543CNP         PLCC28         10-bit A/D, 11-input serial, 38kHz         3.09         3.79         3.75           28936OCH         TLC1543CNP         PLCC28         10-bit A/D, 11-input serial, 36kHz         3.09         3.79         3.75           287715FOCH         MAXINGERON         DIP-20         12-bit A/D,	289001CH	TLC1541CDW	SOP-20	10-bit A/D, 11-input serial, 32kHz	6.05	5.75	5.45
289078CH TLC1542CN DP-20	289019CH	TLC1541CN	DIP-20	10-bit A/D, 11-input serial, 32kHz	6.09	5.85	5.75
289107CH TLC1542CN PICC-20   1-bit A/D, 11-input serial, 38kHz   4.55   4.39   4.25   289113CH TLC1543CDR SOP-20   1-bit A/D, 11-input serial, 38kHz   3.65   3.25   3.05   28913CH TLC1543CDR SOP-20   1-bit A/D, 11-input serial, 38kHz   3.65   3.25   3.05   28922CH TLC1543CDR SOP-20   1-bit A/D, 11-input serial, 38kHz   3.55   3.25   3.09   28922CH TLC1543CDR SOP-20   1-bit A/D, 11-input serial, 38kHz   3.35   3.25   3.09   28923CH TLC1543CDR SOP-20   1-bit A/D, 11-input serial, 38kHz   3.35   3.25   3.09   28933CH TLC1543CDR SOP-20   1-bit A/D, 11-input serial, 38kHz   3.35   3.79   3.75				· ·			
289115CH         TLC1542CFN         PLCC-20         10-bit A/D, 11-input serial, 38kHz         4.55         4.39         4.25           289123CH         TLC1543CDR         SSO-20         10-bit A/D, 11-input serial, 38kHz         3.55         3.25         3.05           28922CH         TLC1543CPN         PLCC-20         10-bit A/D, 11-input serial, 38kHz         3.35         3.25         3.09           28923CH         TLC1543CDN         SSOP-20         10-bit A/D, 11-input serial, 38kHz         3.99         3.79         3.75           28933GCH         TLC1543CDN         PLCC-20         10-bit A/D, 11-input serial, 38kHz         3.99         3.79         3.75           28933GCH         TLC154GON         PLCC-20         10-bit A/D, 11-input serial, 38kHz         3.99         3.79         3.75           28933GCH         TLC154GON         PLCC-20         10-bit A/D, 11-input serial, 38kHz         3.99         3.79         3.75           28937FCH         TLC154GON         PLC-28         10-bit A/D, 11-input serial, 38kHz         3.99         3.75         3.09           2777FGFCH         MAXIBAGEON         PLC-28         10-bit A/D, 11-input serial, 38kHz         3.99         3.75         3.05         3.39         3.55         3.09         3.75         3.05				· ·			
289132CH TLC1543CDB SOP-20         10-bit A/D, 11-input serial, 38kHz         3.65         3.25         3.05           289131CH TLC1543CDB SOP-20         10-bit A/D, 11-input serial, 38kHz         3.35         3.25         3.09           28923CHCH TLC1543CDB SOP-20         10-bit A/D, 11-input serial, 38kHz         3.25         3.25         3.09           28933CH TLC1543CDB SOP-20         10-bit A/D, 11-input serial, 38kHz         3.99         3.79         3.75           28933CH TLC1543CDB SOP-20         10-bit A/D, 11-input serial, 38kHz         3.99         3.79         3.75           28933CH TLC1543CDB SOP-20         10-bit A/D, 11-input serial, 38kHz         3.99         3.79         3.75           28933CH TLC1543CDB SOP-8         10-bit A/D, 11-input serial, 38kHz         3.99         3.79         3.75           28937CH TLC154TH MAX186CCPP DIP-20         12-bit A/D Serial, 11-input, 38kHz         3.35         3.19         3.05           277165CH MAX186CCPP DIP-20         12-bit A/D Serial 8-input, low power         1.975         5.50         5.70           277166CH MAX186CCPP DIP-20         12-bit A/D (e1 LSB), 40ksps         34.79         3.65         3.20           28775ACH ADSS74LP DIP-28         12-bit A/D (e1 LSB), 40ksps         35.75         1.52         3.52           28778SECH ADSTALU         SIC				·			
289131CH         TLC1543CDW         SOIC-20         10-bit A/D, 11-input serial, 38kHz         3.35         3.25         3.09           28922CH         TLC1543CDR         SDP-20         10-bit A/D, 11-input serial, 38kHz         3.05         3.27         3.75           289330CH         TLC1543CDR         SSOP-20         10-bit A/D, 11-input serial, 38kHz         3.09         3.79         3.75           289336CH         TLC1543CDR         PLC-20         10-bit A/D, 11-input serial, 38kHz         3.09         3.79         3.75           289337CH         TLC1543CDR         PLC-20         10-bit A/D, 11-input serial, 38kHz         3.09         3.79         3.75           289337CH         TLC1551TR         PLC-28         10-bit A/D, 11-input serial, 38kHz         3.09         3.79         5.70           277156CH         MXX18B6CPP         PLP-20         12-bit A/D (al-158)         10-bit A/D, 11-input serial, 38kHz         3.09         3.05         5.00				· ·			
289220CH         TLC1543CFN         PLCC-20         10-bit A/D, 11-input serial, 38kHz         3.35         3.25         3.09           289271CH         TLC1543CDR         SSO-20         10-bit A/D, 11-input serial, 38kHz         3.09         3.79         3.75           28933ACH         TLC1543CFN         PLC-20         10-bit A/D, 11-input serial, 38kHz         3.99         3.79         3.75           28933CH         TLC1543CFN         PLC-20         10-bit A/D, 11-input serial, 38kHz         3.99         3.79         3.75           28937CH         TLC1549CD         SOP-8         10-bit A/D, 11-input serial, 38kHz         3.99         3.79         3.75           287716CH         MAX186BCPP         DIP-20         12-bit A/D, 21-bit A/				•			
2893300CH         TIC15430DW         SOIC-20         10-bit A/D, 11-input serial, 38kHz         3.99         3.79         3.75           289334CH         TIC15430CP         PICC-20         10-bit A/D, 11-input serial, 38kHz         3.99         3.79         3.55           289337CH         TIC1551TN         PICC-22         10-bit A/D, 11-input parallel, 164kHz, TIMP         6.29         5.99         5.70           277765CH         MAX1866CPP         DIP-20         12-bit A/D serial 8-input, low power         19.75         15.55         13.99           277766CH         MAX1797ECN         DIP-28         12-bit A/D w/B-ch, 1/2 LSB         24.99         22.95         20.95           28775CH         ADS74LP         DIP-28         12-bit A/D w/B-ch, 1/2 LSB         24.99         22.95         20.95           28775CH         ADS74LN         DIP-28         12-bit A/D w/B-ch, 1/2 LSB         38.79         36.85         35.00           28782CH         ADS774LN         SOIC-20         12-bit A/D (±1 LSB), 40ksps         38.45         33.69         32.00           28782CH         ADS774LN         SOIC-20         12-bit A/D (±1 LSB), 12/Sksps         35.45         33.69         32.00           289432CH         TLC2543CSD         SOIC-20         12-bit A/D, 11-input seri				· ·			
289334CH         TLC15430FN         PLC2-20         10-bit A/D, 11-input serial, 38kHz         3.99         3.79         3.75           289367CH         TLC1549CD         SOP-8         10-bit A/D serial, 11-input, 38kHz         3.35         3.19         3.05           28937CH         TLC1551Th         PLC2-8         10-bit A/D serial B-input, low power         2.95         5.25         21.25           277765CH         MAX1860CWP         SOL-20         12-bit A/D serial B-input, low power         19.75         15.55         13.99           277765CH         MAX1860CWP         SOL-20         12-bit A/D serial B-input, low power         19.75         15.55         13.99           287515CH         ADS574LP         DIP-28         12-bit A/D (e1 LSB), 40ksps         38.79         36.85         35.00           287528CH         ADS774LJ         DIP-28         12-bit A/D (e1 LSB), 15ksps         38.79         36.85         35.00         20.00         39.00         40.39         32.00         39.00         40.39         32.00         39.00         40.39         32.00         39.00         30.00         30.00         38.00         38.00         30.00         30.00         30.00         30.00         30.00         30.00         30.00         30.00         30.00	289271CH	TLC1543QDB	SSOP-20	10-bit A/D, 11-input serial, 38kHz	4.05	3.79	3.75
289369CH         TLC1549CD         SOP-8         10-bit A/D serial, 11-input, 38kHz         .3.35         3.19         3.05           28937TH         TLC1551TH         PLCC2         10-bit A/D, 11-input parallel, 164kHz, ITMP         .6.29         5.99         5.70           277165CH         MAX1860CWP         SOLC-20         12-bit A/D serial 8-input, low power         19-75         15.55         21.25           277167CH         MAX180CWP         SOLC-20         12-bit A/D serial 8-input, low power         19-75         15.55         21.29           277167CH         MAX197BCN         DIP-28         12-bit A/D (±1 LSB), 40ksps         38.79         36.85         35.00           28753CH         ADS77HJP         DIP-28         12-bit A/D (±1 LSB), 40ksps         44.75         42.49         40.39           287783CH         ADS77HJU         SOIC-28         12-bit A/D (±1 LSB), 115ksps         8.95         7.66         7.18           289431CH         TLC2543CW         SOIC-20         12-bit A/D (±1 LSB), 11kpsp         8.95         7.65         7.55           289431CH         TLC2543CW         DIP-20         12-bit A/D, 11-input serial, 66kHz         8.35         7.95         7.55           289431CH         TLC2543CW         DIP-20         12-bit A/D, 11-input	289300CH	TLC1543QDW	SOIC-20	10-bit A/D, 11-input serial, 38kHz	3.99	3.79	3.75
289377CH         TLC15511FN         PLC2-28         10-bit A/D, 11-input parallel, 164kHz, ITMP         6.29         5.79         5.70           277716SCH         MAX1866CPW         DIP-20         12-bit A/D serial 8-input, low power         19.75         15.55         13.99           277069CH         MAX197BCN         DIP-28         12-bit A/D w/B-ch, 1/2 LSB         24.99         22.95         20.95           28751CH         ADS574LP         DIP-28         12-bit A/D (±1 LSB), 40ksps         38.79         36.85         35.00           28757SCH         ADS574LP         DIP-28         12-bit A/D (±1 LSB), 40ksps         38.79         36.85         35.00           287582CH         ADS774LN         DIP-28         12-bit A/D (±1 LSB), 10ksps         41.35         31.05         25.00           309711CH         LTC1299CNB         DIP-8         12-bit A/D (±1 LSB), 125ksps         35.45         33.69         20.00           309711CH         LTC1294CNB         DIP-80         12-bit A/D (±1 LSB), 125ksps         35.45         33.69         7.05         7.55           28943CCH         TLC2543CNB         SOIC-20         12-bit A/D, 11-input serial, 66kHz         8.35         7.95         7.55           289463CH         TLV2543CDW         SOIC-20         12-	289334CH	TLC1543QFN	PLCC-20	10-bit A/D, 11-input serial, 38kHz	3.99	3.79	3.75
277165CH         MAX186BCPP         DIP-20         12-bit A/D serial 8-input, low power         .29,55         23,55         12.55           27717GCH         MAX186BCWP         SOIC-20         12-bit A/D serial 8-input, low power         .97,55         15,55         13.99           27716CH         MAX186DCWP         SOIC-20         12-bit A/D serial 8-input, low power         .97,55         20,55         20,55         20,55         20,55         21,50         20,70         20,70         20,70         20,70         20,70         20,70         20,70         20,70         20,70         20,70         20,70         30,70         36,85         35,09         30,00         30,00         20,00 <t< th=""><th></th><td></td><td></td><td>·</td><td></td><td></td><td></td></t<>				·			
277157CH MX196DCMP SOIC-20 12-bit A/D serial 8-input, low power 19.75 15.55 13.99 277069CH MX197BCN DIP-28 12-bit A/D (±1 LSB), 40ksps 38.79 36.85 35.00 287574CH ADS574JP DIP-28 12-bit A/D (±1 LSB), 40ksps 44.75 42.49 40.39 287283CH ADS574JP DIP-28 12-bit A/D (±1 LSB), 40ksps 44.75 42.49 40.39 287283CH ADS5774JU SOIC-28 12-bit A/D (±1 LSB), 15us 41.35 31.05 25.05 28758CH ADS774JU SOIC-28 12-bit A/D (±1 LSB), 15us 41.35 31.05 25.05 28758CH ADS774JU SOIC-28 12-bit A/D (±1 LSB), 15us 41.35 31.05 25.05 28758CH ADS774JU SOIC-28 12-bit A/D (±1 LSB), 15us 41.35 31.05 25.05 28758CH ADS774JU SOIC-29 12-bit A/D (±1 LSB), 15us 41.35 31.05 25.05 289431CH TLC2543CDW SOIC-20 12-bit A/D (±1 LSB), 15us 41.35 37.95 7.55 289431CH TLC2543CDW SOIC-20 12-bit A/D, 11-input serial, 66kHz 8.35 7.95 7.55 28943CSH TLC2543CDW SOIC-20 12-bit A/D, 11-input serial, 66kHz 8.35 7.95 7.55 28943CSH TLC2543CDW SOIC-20 12-bit A/D, 11-input serial, 66kHz 8.35 7.95 7.55 28943CSH TLC2543CDW SOIC-20 12-bit A/D, 11-input serial, 66kHz 8.35 7.95 7.55 28943CSH TLC2543CDW SOIC-20 12-bit A/D 1-input serial, 66kHz 8.35 7.95 7.55 28943CSH TLC2543CDW SOIC-20 12-bit A/D 1-input serial, 66kHz 8.35 7.95 7.55 28943CSH TLC2543CDW SOIC-20 12-bit A/D 1-input serial, 66kHz 8.35 7.95 7.55 28943CSH TLC2543CDW SOIC-20 12-bit A/D 1-input serial, 66kHz 8.35 7.95 7.55 28943CSH TLC2543CDW SOIC-20 12-bit A/D 1-input serial, diff. input 2.79 2.65 2.55 43764CH 7109CPL DIP-40 12-bit A/D 1-input serial, diff. input 2.79 2.65 2.55 28798CSH MCP330-CUNS MSOP-8 13-bit A/D, 2-input serial, diff. input 2.79 2.65 2.55 28799CSH MCP330-CUNS MSOP-8 13-bit A/D, 2-input serial, diff. input 3.59 3.45 3.30 28803CSH MCP330-CUNS TSOSD-14 13-bit A/D, 2-input serial, diff. input 3.59 3.45 3.30 28803CSH MCP330-CUNS SOIC-16 13-bit A/D analog 'front end', 18mW 3.55 3.65 3.65 3.50 28803CSH MCP330-CUNS SOIC-16 13-bit A/D analog 'front end', 18mW 3.55 3.65 3.65 3.65 3.30 28803CSH MCP330-CUNS SOIC-16 13							
277069CH         MAX197BCNI         DIP-28         12-bit A/D (±1 LSB), 40ksps         24.99         22.95         20.95           287515CH         ADS574JP         DIP-28         12-bit A/D (±1 LSB), 40ksps         38.79         36.85         35.00           28752BCH         ADS774JI         DIP-28         12-bit A/D (±1 LSB), 40ksps         44.75         42.49         40.39           28752BCH         ADS774JI         SOIC-28         12-bit A/D (±1 LSB), 12bss         41.35         31.05         25.05           309711CH         LTC1298CNB         DIP-8         12-bit A/D (±1 LSB), 12bss         3.5.45         37.69         7.08           28943CH         TLC2543CDB         SOIC-20         12-bit A/D, 11-input serial, 66kHz         8.35         7.95         7.55           28943TCH         TLC2543CDB         SOIC-20         12-bit A/D, 11-input serial, 66kHz         8.35         7.95         7.55           289473CH         TLV2543CDW         SOIC-20         12-bit A/D, 11-input serial, 66kHz         8.35         7.95         7.55           290649CH         TLV2543CDW         SOIC-20         12-bit A/D, 11-input serial, 66kHz         8.35         7.95         7.55           243475CH         TLV2543CDW         SOIC-20         12-bit A/D, 11-input serial, 66kH				· ·			
287515CH         ADSS71JP         DIP-28         12-bit A/D (±1 LSB), 40ksps         38.79         36.85         35.00           28757ACH         ADSS71AFD         DIP-28         12-bit A/D (±1 LSB), 40ksps         44.75         42.49         40.39           287582CH         ADS774JU         SOIC-28         12-bit A/D (±1 LSB), 15ksps         35.45         33.69         32.00           309711CH         LTC1298CN8         DIP-28         12-bit A/D (±1 LSB), 115ksps         35.45         33.69         32.00           309711CH         LTC2543CDW         SOIC-20         12-bit A/D, 11-input serial, 66kHz         8.35         7.95         7.55           289431CH         TLC2543CDW         DIP-20         12-bit A/D, 11-input serial, 66kHz         8.35         7.95         7.55           289431CH         TLC2543CDW         DIP-20         12-bit A/D, 11-channel serial         8.35         7.95         7.55           290649CH         TLV2543CDW         DIP-20         12-bit A/D, 11-channel serial         7.99         7.79         7.55           43764CH         TJ09CPL         DIP-40         12-bit A/D, 11-channel serial         8.35         7.95         7.55           43764CH         TJ09CPL         DIP-40         12-bit A/D, 11-channel serial         3.61				· · ·			
287574CH         ADSS74KP         DIP-28         12-bit AVD (±1 LSB), 40ksps         44.75         42.49         40.39           287282CH         ADS774JU         SOIC-28         12-bit AVD (±1 LSB), 15bs         41.35         31.05         25.05           287582CH         ADS774JU         SOIC-28         12-bit AVD (±1 LSB), 15ksps         3.545         33.69         32.00           309711CH         LTC2543CDW         SOIC-20         12-bit AVD, 11-input serial, 66kHz         8.35         7.95         7.55           289435CH         TLC2543CDW         DIP-20         12-bit AVD, 11-input serial, 66kHz         8.35         7.95         7.55           289435CH         TLC2543CDW         SSOP-20         12-bit AVD, 11-input serial, 66kHz         8.35         7.95         7.55           29043CH         TLV2543CDW         DIP-20         12-bit AVD, 11-channel serial         7.99         7.75         7.55           290669CH         TLV2543CDW         DIP-20         12-bit AVD, 11-input serial, 66kHz         8.35         7.95         7.55           290669CH         TLV2543CDW         DIP-20         12-bit AVD, 11-input serial, 6fff. input         2.05         1.95         1.55           28798CH         MCP3302CIVE         DIP-40         12-bit AVD, 11-input seria							
287582CH         ADS774JU         SOIC-28         12-bit A/D (±1 LSB), 125ksps         35.45         33.69         32.00           309711CH         LTC1298CNB         DIP-8         12-bit A/D (±3/4 LSB), 11ksps         8.95         7.66         7.18           289422CH         TLC2543CND         SOIC-20         12-bit A/D, 11-input serial, 66kHz         8.35         7.95         7.55           289431CH         TLC2543CND         DIP-20         12-bit A/D, 11-input serial, 66kHz         8.35         7.95         7.55           289473CH         TLC2543CDW         SOIC-20         12-bit A/D, 11-channel serial         8.35         7.95         7.55           29063CH         TLV2543CDW         DIP-20         12-bit A/D, 11-channel serial         7.99         7.79         7.55           4376CH         7109CPL         DIP-40         12-bit A/D, 11-channel serial         8.35         7.95         7.55           4376CH         7109CPL         DIP-40         12-bit A/D, 1-input (±2 LSB), 30sps         7.49         6.37         4.77           311781CH         MCP3301-CIVB         DIP-8         13-bit A/D, 1-input serial, diff. input         2.55         2.55           287996CH         MCP3301-CIVB         DIP-14         13-bit A/D, 1-input serial, diff. input				* * *			
309711CH   LTC1298CN8 DIP-8   12-bit A/D (±3/4 LSB), 11ksps	287283CH	AD674BJN	DIP-28	12-bit A/D 1-input (±1 LSB), 15us	41.35	31.05	25.05
289422CH         TLC2543CDW         SOIC-20         12-bit A/D, 11-input serial, 66kHz         8.35         7.95         7.55           289431CH         TLC2543CDN         DIP-20         12-bit A/D, 11-input serial, 66kHz         7.29         6.55         5.59           289473CH         TLC2543CDB         SSOP-20         12-bit A/D, 11-input serial, 66kHz         8.35         7.95         7.55           290634CH         TLV2543CDW         SOIC-20         12-bit A/D, 11-input serial, 66kHz         8.35         7.95         7.55           290669CH         TLV2543CDW         SOIC-20         12-bit A/D, 11-channel serial         7.99         7.79         7.55           290669CH         TLV2543CDW         DIP-20         12-bit A/D, 11-channel serial         8.35         7.95         7.55           43764CH         7109CPL         DIP-40         12-bit A/D, 11-channel serial         8.35         7.95         7.55           287996CH         MCP3301-CIMS         MSOP-8         13-bit A/D, 1-input serial, diff. input         2.79         2.65         2.55         2.77         2.65         2.55         2.89         2.49         2.40         2.80         2.80         2.80         2.40         2.40         2.80         2.80         2.80         2.80				12-bit A/D (±1 LSB), 125ksps	35.45		32.00
289431CH         TLC2543CFN         PLCC-20         12-bit A/D, 11-input serial, 66kHz         7.29         6.55         5.59           28946SCH         TLC2543CDN         DIP-20         12-bit A/D, 11-input serial, 66kHz         8.35         7.95         7.55           289473CH         TLC2543CDW         SOIC-20         12-bit A/D, 11-input serial, 66kHz         8.35         7.95         7.55           290664CH         TLV2543CDW         SOIC-20         12-bit A/D, 11-channel serial         7.99         7.79         7.55           290664CH         TLV2543CDW         SOIC-20         12-bit A/D, 11-channel serial         8.35         7.95         7.55           43764CH         7109CPL         DIP-40         12-bit A/D 11-chupt serial, diff. input         2.05         1.95         1.85           287998CH         MCP3301-CUR         SOIC-88         13-bit A/D, 1-input serial, diff. input         2.59         2.49         2.40         2.80           28800BCH         MCP3302-CUSL         SOIC-14         13-bit A/D, 2-input serial, diff. input         3.59         3.45         3.30           28803LCH         MCP3302-CUSL         SOIC-14         13-bit A/D, 2-input serial, diff. input         3.59         3.45         3.30           28803LCH         MCP3304-CUSL							
289465CH         TLC2543CN         DIP-20         12-bit A/D, 11-input serial, 66kHz         8.35         7.95         7.55           29063CHC         TLV2543CDS         SSOP-20         12-bit A/D, 11-channel serial         7.99         7.79         7.55           29064CHC         TLV2543CDW         DIP-20         12-bit A/D, 11-channel serial         7.99         7.79         7.55           43764CH         7109CPL         DIP-40         12-bit A/D, 11-channel serial         8.35         7.95         7.55           43764CH         7109CPL         DIP-40         12-bit A/D, 11-channel serial         8.35         7.95         7.55           43764CH         7109CPL         DIP-40         12-bit A/D, 1-input serial, diff. input         2.79         2.65         2.55           287996CH         MCP3301-CIVP         DIP-8         13-bit A/D, 1-input serial, diff. input         2.59         2.49         2.40           288016CH         MCP3302-CIVST         TSSDP-14         13-bit A/D, 2-input serial, diff. input         3.59         3.45         3.30           288031CH         MCP3302-CIVST         TSSDP-14         13-bit A/D, 2-input serial, diff. input         3.95         3.45         3.50           288041CH         MCP3304-CIVST         ISSDP-14         13-bit							
289473CH         TLC2543CDB         SSOP-20         12-bit A/D, 11-input serial, 66kHz         8.35         7.95         7.55           290634CH         TLV2543CDW         SOIC-20         12-bit A/D, 11-channel serial         7.99         7.79         7.55           290669CH         TLV2543CDW         DIP-20         12-bit A/D, 11-channel serial         8.35         7.95         7.55           43764CH         7109CPL         DIP-40         12-bit A/D, 11-channel serial         8.35         7.95         7.55           43764CH         7109CPL         DIP-40         12-bit A/D, 11-channel serial, diff. input         2.05         1.95         1.85           28798BCH         MCP3301-CUMS         MSOP8         13-bit A/D, 1-input serial, diff. input         2.59         2.49         2.40           288004CH         MCP3302-CUSL         DIP-14         13-bit A/D, 2-input serial, diff. input         3.59         3.45         3.30           288032CH         MCP3302-CUSL         TSCNC-14         13-bit A/D, 2-input serial, diff. input         3.59         3.45         3.30           288032CH         MCP3302-CUSL         SOIC-16         13-bit A/D, 4-input serial, diff. input         3.95         3.79         3.65           288041CH         MCP3304-CUSL         SOIC-16				•			
290634CH         TLV2543CDW         SOIC-20         12-bit A/D, 11-channel serial         7.99         7.79         7.55           290669CH         TLV2543CDW         DIP-20         12-bit A/D, 11-channel serial         8.35         7.95         7.55           43764CH         7109CPL         DIP-40         12-bit A/D, 1-input gerial         8.35         7.95         7.55           43764CH         7109CPL         DIP-80         12-bit A/D, 1-input serial, cliff, input         2.05         1.95         1.85           28798BCH         MCP3301-CLIMS         MSOP-8         13-bit A/D, 1-input serial, cliff, input         2.79         2.65         2.52           287996CH         MCP3301-CLIMS         SOIC-14         13-bit A/D, 2-input serial, diff, input         2.59         2.49         2.40           28803ECH         MCP3302-CUST         SOIC-16         13-bit A/D, 2-input serial, diff, input         3.59         3.45         3.30           288041CH         MCP3304-CUST         SOIC-16         13-bit A/D, 2-input serial, diff, input         3.59         3.79         3.65           288041CH         MCP3304-CUST         SOIC-16         13-bit A/D, 4-input serial, diff, input         3.59         3.79         3.65           27714pCH         MCX1108CWE         SOIC-16 <th></th> <td></td> <td></td> <td>· · ·</td> <td></td> <td></td> <td></td>				· · ·			
290669CH         TLV2543CDW         DIP-20         12-bit A/D, 11-channel serial         8.35         7.95         7.55           43764CH         7109CPL         DIP-40         12-bit A/D 1-input (±2 LSB), 30sps         7.49         6.37         4.77           3117B1CH         MCP3201-CUMS         MSOP-8         13-bit A/D, 1-input serial, diff. input         2.79         2.65         2.55           28799BCH         MCP3301-CUP         DIP-8         13-bit A/D, 1-input serial, diff. input         2.59         2.49         2.40           28800BCH         MCP3302-CUP         DIP-14         13-bit A/D, 2-input serial, diff. input         3.59         3.45         3.30           288016CH         MCP3302-CUST         TSSOP-14         13-bit A/D, 2-input serial, diff. input         3.59         3.45         3.30           288041CH         MCP3304-CUS         SOIC-16         13-bit A/D, 4-input serial, diff. input         3.59         3.65         3.50           288041CH         MCP3304-CUS         SOIC-16         13-bit A/D, 4-input serial, diff. input         3.95         3.79         3.65           2877131CH         MAX1108CWE         SOIC-16         14-bit A/D serial w/ 2-ch, low cost         11-69         9.21         8.29           277132CH         MAX1108CWE         <							
311781CH MCP3221A5T-I/OT SOT-23A/5 12-bit A/D, low-power I2C interface							
287986CH         MCP3301-CUMS         MSOP-8         13-bit A/D, 1-input serial, diff. input         2.79         2.65         28.7996CH           287996CH         MCP3301-CUP         DIP-8         13-bit A/D, 1-input serial, diff. input         2.59         2.49         2.40           288008CH         MCP3302-CUS         DIP-14         13-bit A/D, 2-input serial, diff. input         3.59         3.45         3.30           28802CH         MCP3302-CUS         TSSOP-14         13-bit A/D, 2-input serial, diff. input         3.59         3.65         3.50           288032CH         MCP3302-CUS         TSSOP-14         13-bit A/D, 2-input serial, diff. input         3.95         3.79         3.65           288041CH         MCP3304-CUS         SOIC-16         13-bit A/D, 4-input serial, diff. input         3.95         3.79         3.65           277149CH         MAX110BCWE         SOIC-16         13-bit A/D serial w/ 2-ch, low cost         11.69         9.21         8.29           27712CH         MAX110BCWE         SOIC-16         14-bit A/D serial w/ 2-ch, low cost         11.69         9.21         8.29           27712CH         MAX110BCWE         SOIC-16         17-bit A/D analog "front end", 18mW         3.55         3.55         8.29           287312CH         AD676JD <th>43764CH</th> <th>7109CPL</th> <th>DIP-40</th> <th>12-bit A/D 1-input (±2 LSB), 30sps</th> <th> 7.49</th> <th>6.37</th> <th>4.77</th>	43764CH	7109CPL	DIP-40	12-bit A/D 1-input (±2 LSB), 30sps	7.49	6.37	4.77
287996CH         MCP3301-CI/P         DIP-8         13-bit A/D, 1-input serial, diff. input         2.59         2.49         2.40           288008CH         MCP3302-CI/P         DIP-14         13-bit A/D, 2-input serial, diff. input         3.59         3.45         3.30           288016CH         MCP3302-CI/ST         TSSDP-14         13-bit A/D, 2-input serial, diff. input         3.59         3.45         3.30           28802CH         MCP3304-CI/P         DIP-16         13-bit A/D, 2-input serial, diff. input         3.95         3.79         3.65           288041CH         MCP3304-CI/P         DIP-16         13-bit A/D, 4-input serial, diff. input         3.95         3.79         3.65           277149CH         MAX110ACWE         SOIC-16         13-bit A/D 4-input serial, diff. input         3.95         3.79         3.65           277131CH         MAX110BCWE         SOIC-16         14-bit A/D serial w/ 2-ch, low cost         11.69         9.21         8.29           27712CH         MAX110BCWE         SOIC-16         14-bit A/D serial w/ 2-ch, low cost         11.69         9.21         8.29           27712CH         MAX110BCWE         SOIC-16         14-bit A/D analog "front end", 18mW         3.35         3.05         2.89           28731CH         AD5780J	311781CH	MCP3221A5T-I/01	SOT-23A/5	12-bit A/D, low-power I2C interface	2.05	1.95	1.85
288008CH         MCP3302-CI/P         DIP-14         13-bit A/D, 2-input serial, diff. input         3.59         3.45         3.30           288016CH         MCP3302-CI/SL         SOIC-14         13-bit A/D, 2-input serial, diff. input         3.59         3.45         3.30           288024CH         MCP3302-CI/ST         TSSOP-14         13-bit A/D, 2-input serial, diff. input         3.85         3.65         3.50           288041CH         MCP3304-CI/SL         SOIC-16         13-bit A/D, 4-input serial, diff. input         3.95         3.79         3.65           27714PCH         MCP3304-CI/SL         SOIC-16         13-bit A/D, 4-input serial, diff. input         3.95         3.79         3.65           27714PCH         MCP3304-CI/SL         SOIC-16         14-bit A/D serial w/ 2-ch, low cost         11.69         9.21         8.29           277131CH         MAX110BCME         SOIC-16         14-bit A/D serial w/ 2-ch, low cost         11.69         9.21         8.29           31379CH         TC500ACOE         DIP-16         17-bit A/D analog 'front end', 18mW         4.55         4.51         4.46           31378TCH         TC500ACOE         DIP-16         17-bit A/D analog 'front end', 18mW         4.55         4.51         4.46           31378TCH         AD76ABN <th></th> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
288016CH         MCP3302-CI/SL         SOIC-14         13-bit A/D, 2-input serial, diff. input         3.59         3.45         3.30           28802CH         MCP3302-CI/ST         TSSOP-14         13-bit A/D, 2-input serial, diff. input         3.85         3.65         3.50           288032CH         MCP3304-CI/SL         SOIC-16         13-bit A/D, 4-input serial, diff. input         3.95         3.79         3.65           277149CH         MAX110ACWE         SOIC-16         14-bit A/D, 4-input serial, diff. input         3.95         3.79         3.65           277112CH         MAX110BCPE         SOIC-16         14-bit A/D, 4-input serial, diff. input         3.95         3.79         3.65           277112CH         MAX110BCPE         DIP-16         14-bit A/D, 4-input y-ch, low cost         11.69         9.21         8.29           27712CH         MAX110BCWE         SOIC-16         17-bit A/D serial w/ 2-ch, low cost         11.69         9.21         8.29           27712CH         MC50ACOE         SOIC-16         17-bit A/D serial w/ 2-ch, low cost         11.69         9.21         8.29           27712CH         MC50ACOE         SOIC-16         17-bit A/D serial w/ 2-ch, low cost         11.69         9.21         8.29           27712CH         MC50ACOE							
288024CH         MCP3302-CUST TSSOP-14         13-bit A/D, 2-input serial, diff. input         3.85         3.65         3.50           288032CH         MCP3304-CUP         DIP-16         13-bit A/D, 4-input serial, diff. input         3.95         3.79         3.65           288041CH         MCP3304-CUSL         SOIC-16         13-bit A/D, 4-input serial, diff. input         3.95         3.79         3.65           277149CH         MAX110BCWE         SOIC-16         14-bit A/D serial w/ 2-ch, low cost         11.69         9.21         8.29           27712CH         MAX110BCWE         SOIC-16         14-bit A/D serial w/ 2-ch, low cost         11.69         9.21         8.29           313779CH         TC500ACOE         SOIC-16         17-bit A/D serial w/ 2-ch, low cost         11.69         9.21         8.29           313779CH         TC500ACOE         SOIC-16         17-bit A/D analog "front end", 18mW         4.55         4.51         4.46           313787CH         TC500ACOE         DIP-128         16-bit A/D 1-input (±1LSB), 100ksps         85.69         83.85         81.99           242317CH         ADS7805         DIP-28         16-bit A/D 1-input (±2 LSB), 40ksps         37.85         35.25         33.15           239417CH         AD976ABN         DIP-28							
288032CH         MCP3304-CI/P         DIP-16         13-bit A/D, 4-input serial, diff. Input         3.95         3.79         3.65           288041CH         MCP3304-CI/SL         SOIC-16         13-bit A/D, 4-input serial, diff. input         3.95         3.79         3.65           277149CH         MAX110ACWE         SOIC-16         14-bit A/D serial w/ 2-ch, low cost         15.25         11.99         10.79           277131CH         MAX110BCWE         SOIC-16         14-bit A/D serial w/ 2-ch, low cost         11.69         9.21         8.29           313779CH         TC500ACOE         SOIC-16         17-bit A/D analog "front end", 18mW         4.55         4.51         4.46           313787CH         TC500ACOE         DIP-16         17-bit A/D analog "front end", 18mW         4.55         4.51         4.46           313779CH         TC500ACOE         DIP-16         17-bit A/D analog "front end", 18mW         4.55         4.51         4.46           313787CH         TC500ACDE         DIP-28         16-bit A/D 1-input (±1LSB), 100ksps         85.69         83.85         81.99           242317CH         ADS7805         DIP-28         16-bit A/D 1-input (±2 LSB), 40ksps         37.85         35.25         33.15           239417CH         ADS7813         DIP-16 </th <th></th> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
288041CH         MCP3304-CI/SL         SOIC-16         13-bit A/D, 4-input serial, diff. input         3.95         3.79         3.65           277149CH         MAX110ACWE         SOIC-16         14-bit A/D serial w/ 2-ch, low cost         15.25         11.99         10.79           277131CH         MAX110BCWE         DIP-16         14-bit A/D serial w/ 2-ch, low cost         11.69         9.21         8.29           27712CH         MAX110BCWE         SOIC-16         14-bit A/D serial w/ 2-ch, low cost         11.69         9.21         8.29           31377CH         TC500ACOE         SOIC-16         17-bit A/D analog "front end", 18mW         4.55         4.51         4.46           31378CH         TC500ACOE         DIP-16         17-bit A/D analog "front end", 18mW         3.35         3.05         2.89           287312CH         AD676JD         DIP-28         16-bit A/D 1-input (±1LSB), 100ksps         85.69         83.85         81.99           242317CH         ADS7805         DIP-28         16-bit A/D 1-input (±2 LSB), 40ksps         37.85         35.25         33.15           243232FCH         ADS7813         DIP-16         16-bit A/D 1-input (±2 LSB), 40ksps         37.85         35.25         33.15           287410CH         AD976ABN         SDP-28							
277131CH         MAX110BCPE         DIP-16         14-bit A/D serial w/ 2-ch, low cost         11.69         9.21         8.29           277122CH         MAX110BCWE         SOIC-16         14-bit A/D serial w/ 2-ch, low cost         11.69         9.21         8.29           313779CH         TC500ACOE         SOIC-16         17-bit A/D analog "front end", 18mW         4.55         4.51         4.46           313787CH         TC500CPE         DIP-16         17-bit A/D analog "front end", 18mW         3.35         3.05         2.89           287312CH         AD676JD         DIP-28         16-bit A/D 1-input (±1LSB), 100ksps         85.69         83.85         81.99           242317CH         ADS7805         DIP-28         16-bit A/D 1-input (±2 LSB), 100ksps         37.85         35.25         33.15           242325CH         ADS7813         DIP-28         16-bit A/D 1-input (±2 LSB), 40ksps         37.85         35.25         33.15           287401CH         AD976ABN         DIP-28         16-bit A/D 1-input (±2 LSB), 200ksps         72.69         69.49         66.05           287419CH         AD976ABRS         SSOP-28         16-bit A/D 1-input (±2 LSB), 200ksps         72.99         69.49         66.05           287419CH         AD976ABRS         SSOP-28				· · ·			
277122CH         MAX110BCWE         SOIC-16         14-bit A/D serial w/ 2-ch, low cost	277149CH	MAX110ACWE	SOIC-16	14-bit A/D serial w/ 2-ch, low cost	. 15.25	11.99	10.79
313779CH         TC500ACOE         SOIC-16         17-bit A/D analog "front end", 18mW         4.55         4.51         4.46           313787CH         TC500CPE         DIP-16         17-bit A/D analog "front end", 18mW         3.35         3.05         2.89           287312CH         AD676JD         DIP-28         16-bit A/D 1-input (±1LSB), 100ksps         85.69         83.85         81.99           242317CH         ADS7805         DIP-28         16-bit A/D 1-input (±2 LSB), 100ksps         37.85         35.25         33.15           242325CH         ADS7813         DIP-16         16-bit A/D 1-input (±2 LSB), 40ksps         46.55         43.45         41.35           287401CH         AD976ABN         DIP-28         16-bit A/D 1-input (±2 LSB), 200ksps         72.69         69.49         66.05           287419CH         AD976ABN         DIP-28         16-bit A/D 1-input (±2 LSB), 200ksps         72.69         69.49         66.05           28743CH         AD976ABRS         SSOP-28         16-bit A/D 1-input (±2 LSB), 200ksps         72.69         69.49         66.05           28743CH         AD976ABRS         SSOP-28         16-bit A/D 1-input (±2 LSB), 200ksps         72.69         69.49         66.05           28743SCH         AD976BR         SOIC-28	277131CH	MAX110BCPE	DIP-16	14-bit A/D serial w/ 2-ch, low cost	. 11.69	9.21	8.29
313787CH         TC500CPE         DIP-16         17-bit A/D analog "front end", 18mW	277122CH	MAX110BCWE					8.29
287312CH         AD676JD         DIP-28         16-bit A/D 1-input (±1LSB), 100ksps				-			
242317CH         ADS7805         DIP-28         16-bit A/D 1-input (±3 LSB), 100ksps. 42-6538.29         36.35         34.52           242325CH         ADS7813         DIP-16         16-bit A/D 1-input (±2 LSB), 40ksps				•			
242325CH         ADS7813         DIP-16         16-bit A/D 1-input (±2 LSB), 40ksps         37.85         35.25         33.15           239417CH         ADS7825         DIP-28         16-bit A/D 4-inputs (±2 LSB), 40ksps         46.55         43.45         41.35           287401CH         AD976ABN         DIP-28         16-bit A/D 1-input (±2 LSB), 200ksps         72.69         69.49         66.05           287419CH         AD976BR         SOIC-28         16-bit A/D 1-input (±2 LSB), 200ksps         72.99         69.49         66.05           28750CH         ADS1100A010BVT SOT-23/6         16-bit A/D 1-input (±3 LSB), 100ksps         58.55         55.59         52.85           28750CH         ADS1100A010BVT SOT-23/6         16-bit A/D, self-calibrating         3.59         3.45         3.25           288593CH         PCM1800E         SSOP-24         20-bit stereo A/D, 2-input serial, 32-48kHz         4.75         4.65         4.49           28862CH         PCM1801U         SOIC-14         20-bit stereo A/D, 2-input serial, 32-48kHz         4.89         4.29         4.15           28773GCH         AD7714AN         DIP-24         24-bit A/D 6-input, 38ksps         18.35         17.95         17.50           287793CH         MC144110DW SOIC-10         6-bit D/A, 6-input, serial R-2R <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>							
239417CH         ADS7825         DIP-28         16-bit A/D 4-inputs (±2 LSB), 40ksps         46.55         43.45         41.35           287401CH         AD976ABN         DIP-28         16-bit A/D 1-input (±2 LSB), 200ksps         72.69         69.49         66.05           287419CH         AD976ABRS         SSOP-28         16-bit A/D 1-input (±2 LSB), 200ksps         72.99         69.49         66.05           287435CH         AD976BR         SOIC-28         16-bit A/D 1-input (±3 LSB), 100ksps         58.55         55.59         52.85           287507CH         ADS1100A0108VT         SOT-23/6         16-bit A/D 1-input (±3 LSB), 100ksps         58.55         55.59         52.85           288593CH         PCM1800E         SSOP-24         20-bit stereo A/D, 2-input serial, 32-48kHz         4.75         4.65         4.49           288622CH         PCM1801U         SOIC-14         20-bit stereo A/D, 2-input serial, 32-48kHz         4.89         4.29         4.15           287363CH         AD7714AN         DIP-24         24-bit A/D 6-input, 38ksps         18.35         17.95         17.50           287793CH         MC144110DW         SOIC-20         6-bit D/A, 6-input, serial R-2R         4.45         4.20         3.90           287822CH         MC144111DW         SOI							
287401CH         AD976ABN         DIP-28         16-bit A/D 1-input (± 2LSB), 200ksps         72.69         69.49         66.05           287419CH         AD976ABRS         SSOP-28         16-bit A/D 1-input (± 2LSB), 200ksps         72.99         69.49         66.05           287435CH         AD976BR         SOIC-28         16-bit A/D 1-input (± 2LSB), 100ksps         58.55         55.59         52.85           287507CH         ADS1100A0108VT SOT-23/6         16-bit A/D 1-input (± 3LSB), 100ksps         3.59         3.45         3.25           288593CH         PCM1800E         SSOP-24         20-bit stereo A/D, 2-input serial, 32-48kHz         4.75         4.65         4.49           288622CH         PCM1801U         SOIC-14         20-bit stereo A/D, 2-input serial, 32-48kHz         4.89         4.29         4.15           287363CH         AD7714AN         DIP-24         24-bit A/D 6-input, 38ksps         18.35         17.95         17.50           31672CH         TC7117CPL         DIP-40         A/D conv w/ 3 1/2 digit LED/LCD driver         3.75         2.89         2.75           287793CH         MC144110DW SOIC-20         6-bit D/A, 6-input, serial R-2R         3.65         2.49         2.29           115158CH         AD558JN         DIP-16         8-bit D/A (±1 LSB),							
287435CH         AD976BR         SOIC-28         16-bit A/D 1-input (±3 LSB), 100ksps	287401CH	AD976ABN				69.49	
287507CH         ADST100A010BUT SOT-23/6         16-bit A/D, self-calibrating         3.59         3.45         3.25           288593CH         PCM1800E         SSOP-24         20-bit stereo A/D, 2-input serial, 32-48kHz         4.75         4.65         4.49           288622CH         PCM1801U         SOIC-14         20-bit stereo A/D, 2-input serial, 32-48kHz         4.89         4.29         4.15           287363CH         AD7714AN         DIP-24         24-bit A/D 6-input, 38ksps         18.35         17.95         17.50           316726CH         TC7117CPL         DIP-40         A/D conv w/ 3 1/2 digit LED/LCD driver         3.75         2.89         2.75           287793CH         MC144110DW         SOIC-20         6-bit D/A, 6-input, serial R-2R         4.45         4.20         3.90           287822CH         MC144111DW         SOIC-16         6-bit D/A, 4-input, serial R-2R         3.65         2.49         2.29           115158CH         AD558JN         DIP-16         8-bit D/A 1-input (±1/2 LSB), 200ns         12.59         11.99         11.29           14904CH         DAC0800LCN         DIP-16         8-bit D/A (±1 LSB), 150ns (MC1408P6)         1.89         1.85         1.82           14947CH         DAC0803LCN         DIP-16         8-bit D/A (±1 LSB)	287419CH	AD976ABRS	SSOP-28	16-bit A/D 1-input (±2 LSB), 200ksps	72.99	69.49	66.05
288593CH         PCM1800E         SSOP-24         20-bit stereo A/D, 2-input serial, 32-48kHz 4.75         4.65         4.49           288622CH         PCM1801U         SOIC-14         20-bit stereo A/D, 2-input serial, 32-48kHz 4.89         4.29         4.15           287363CH         AD7714AN         DIP-24         24-bit A/D 6-input, 38ksps							
288622CH         PCM1801U         SOIC-14         20-bit stereo A/D, 2-input serial, 32-48kHz 4.89         4.29         4.15           287363CH         AD7714AN         DIP-24         24-bit A/D 6-input, 38ksps				•			
287363CH         AD7714AN         DIP-24         24-bit A/D 6-input, 38ksps         18.35         17.95         17.50           316726CH         TC7117CPL         DIP-40         A/D conv w/ 3 1/2 digit LED/LCD driver         3.75         2.89         2.75           287793CH         MC144110DW         SOIC-20         6-bit D/A, 6-input, serial R-2R         4.45         4.20         3.90           287822CH         MC144111DW         SOIC-16         6-bit D/A, 4-input, serial R-2R         3.65         2.49         2.29           115158CH         AD558JN         DIP-16         8-bit D/A 1-input (±1/2 LSB), 200ns         12.59         11.99         11.29           14904CH         DAC0800LCN         DIP-16         8-bit D/A (±1 LSB), 150ns (MC1408P6)         1.89         1.85         1.82           14912CH         DAC0808LCN         DIP-16         8-bit D/A (±1 LSB), 150ns (MC1408P6)         1.89         1.85         1.82           14947CH         DAC0808LCN         DIP-16         8-bit D/A (±1 LSB), 150ns (MC1408P6)         1.59         1.39         1.09           14963CH         DAC0833LCN         DIP-20         8-bit D/A double buffer (.05% Lin.), 1µs         5.95         4.49         4.35           128186CH         DAC0832LCN         DIP-20         8-bit D/A				•			
316726CH         TC7117CPL         DIP-40         A/D conv w/ 3 1/2 digit LED/LCD driver 3.75         2.89         2.75           287793CH         MC144110DW SOIC-20         6-bit D/A, 6-input, serial R-2R 4.45         4.20         3.90           287822CH         MC144111DW SOIC-16         6-bit D/A, 4-input, serial R-2R 3.65         2.49         2.29           115158CH         AD558JN         DIP-16         8-bit D/A 1-input (±1/2 LSB), 200ns 12.59         11.99         11.29           14904CH         DAC0800LCN DIP-16         8-bit D/A (±1 LSB), 100ns 17.9         1.59         1.45           14912CH         DAC0806LCN DIP-16         8-bit D/A (±1 LSB), 150ns (MC1408P6) 1.89         1.85         1.82           14947CH         DAC0808LCN DIP-16         8-bit D/A (±1 LSB), 150ns (MC1408P6) 1.59         1.39         1.09           14963CH         DAC0830LCN DIP-20         8-bit D/A double buffer (.05% Lin.), 1µs 5.95         4.49         4.35           128186CH         DAC0832LCN DIP-20         8-bit D/A double buffer (.20% Lin.), 1µs 3.09         2.99         1.89           290781CH         TLV5604ID         SOIC-16         8-bit D/A, 4-channel, serial 6.85         6.75         6.39           290790CH         TLV5604IPW         TSSOP-16							
287793CH         MC144110DW SOIC-20         6-bit D/A, 6-input, serial R-2R         4.45         4.20         3.90           287822CH         MC144111DW SOIC-16         6-bit D/A, 4-input, serial R-2R         3.65         2.49         2.29           115158CH         AD558JN         DIP-16         8-bit D/A 1-input (±1/2 LSB), 200ns         12.59         11.99         11.29           14904CH         DAC0800LCN DIP-16         8-bit D/A (±1 LSB), 100ns         1.79         1.59         1.45           14912CH         DAC0806LCN DIP-16         8-bit D/A (±1 LSB), 150ns (MC1408P6)         1.89         1.85         1.82           14947CH         DAC0808LCN DIP-16         8-bit D/A (±1 LSB), 150ns (MC1408P6)         1.59         1.39         1.09           14963CH         DAC0830LCN DIP-16         8-bit D/A double buffer (.05% Lin.), 1µs         5.95         4.49         4.35           128186CH         DAC0832LCN DIP-20         8-bit D/A double buffer (.20% Lin.), 1µs         3.09         2.99         1.89           290781CH         TLV5604ID         SOIC-16         8-bit D/A, 4-channel, serial         6.85         6.75         6.39           290790CH         TLV5604IPW         TSSOP-16         8-bit D/A, 4-channel, serial         6.85         6.75         6.39							
287822CH         MC144111DW SOIC-16         6-bit D/A, 4-input, serial R-2R         3.65         2.49         2.29           115158CH         AD558JN         DIP-16         8-bit D/A 1-input (±1/2 LSB), 200ns         12.59         11.99         11.29           14904CH         DAC0800LCN DIP-16         8-bit D/A (±1 LSB), 100ns         1.79         1.59         1.45           14912CH         DAC0806LCN DIP-16         8-bit D/A (±1 LSB), 150ns (MC1408P6)         1.89         1.85         1.82           14947CH         DAC0808LCN DIP-16         8-bit D/A (±1 LSB), 150ns (MC1408P8)         1.59         1.39         1.09           14963CH         DAC0830LCN DIP-20         8-bit D/A double buffer (.05% Lin.), 1µs         5.95         4.49         4.35           128186CH         DAC0832LCN DIP-20         8-bit D/A double buffer (.20% Lin.), 1µs         3.09         2.99         1.89           290781CH         TLV5604ID         SOIC-16         8-bit D/A, 4-channel, serial         6.85         6.75         6.39           290790CH         TLV5604IPW         TSSOP-16         8-bit D/A, 4-channel, serial         6.85         6.75         6.39				=			
14904CH         DAC0800LCN DIP-16         8-bit D/A (±1 LSB), 100ns         1.79         1.59         1.45           14912CH         DAC0806LCN DIP-16         8-bit D/A (±1 LSB), 150ns (MC1408P6)         1.89         1.85         1.82           14947CH         DAC0808LCN DIP-16         8-bit D/A (±1 LSB), 150ns (MC1408P8)         1.59         1.39         1.09           14963CH         DAC0830LCN DIP-20         8-bit D/A double buffer (.05% Lin.), 1µs         5.95         4.49         4.35           128186CH         DAC0832LCN DIP-20         8-bit D/A double buffer (.20% Lin.), 1µs         3.09         2.99         1.89           290781CH         TLV5604ID         SOIC-16         8-bit D/A, 4-channel, serial         6.85         6.75         6.39           290790CH         TLV5604IPW         TSSOP-16         8-bit D/A, 4-channel, serial         6.85         6.75         6.39				•			
14912CH         DAC0806LCN         DIP-16         8-bit D/A (±1 LSB), 150ns (MC1408P6) 1.89         1.85         1.82           14947CH         DAC0808LCN         DIP-16         8-bit D/A (±1 LSB), 150ns (MC1408P8) 1.59         1.39         1.09           14963CH         DAC0830LCN         DIP-20         8-bit D/A double buffer (.05% Lin.), 1µs 5.95         4.49         4.35           128186CH         DAC0832LCN         DIP-20         8-bit D/A double buffer (.20% Lin.), 1µs 3.09         2.99         1.89           290781CH         TLV5604ID         SOIC-16         8-bit D/A, 4-channel, serial	115158CH	AD558JN	DIP-16			11.99	11.29
14947CH         DAC0808LCN DIP-16         8-bit D/A (±1 LSB), 150ns (MC1408P8) 1.59         1.39         1.09           14963CH         DAC0830LCN DIP-20         8-bit D/A double buffer (.05% Lin.), 1µs 5.95         4.49         4.35           128186CH         DAC0832LCN DIP-20         8-bit D/A double buffer (.20% Lin.), 1µs 3.09         2.99         1.89           290781CH         TLV5604ID         SOIC-16         8-bit D/A, 4-channel, serial							
14963CH         DAC0830LCN         DIP-20         8-bit D/A double buffer (.05% Lin.), 1µs 5.95         4.49         4.35           128186CH         DAC0832LCN         DIP-20         8-bit D/A double buffer (.20% Lin.), 1µs 3.09         2.99         1.89           290781CH         TLV5604ID         SOIC-16         8-bit D/A, 4-channel, serial							
128186CH       DAC0832LCN       DIP-20       8-bit D/A double buffer (.20% Lin.), 1µs 3.09       2.99       1.89         290781CH       TLV5604ID       SOIC-16       8-bit D/A, 4-channel, serial							
290781CH         TLV5604ID         SOIC-16         8-bit D/A, 4-channel, serial         6.85         6.75         6.39           290790CH         TLV5604IPW         TSSOP-16         8-bit D/A, 4-channel, serial         6.85         6.75         6.39				· · · · · · · · · · · · · · · · · · ·			
<b>290790CH</b> TLV5604IPW TSSOP-16 8-bit D/A, 4-channel, serial							

A/D &	D/A Co	nvert	ers (Continued)	Packa	ige (see	pg 34)
Part No.	Cross Ref.	Pkg.	Description	1	10	100
289844CH	TLC5620CD	SOIC-14	8-bit D/A, 4-channel, serial	\$2.75	\$2.64	\$2.55
289861CH	TLC5628CDW	SOIC-16	8-bit D/A, 8-channel, serial	4.75	4.29	4.15
289879CH	TLC5628CN	DIP-16	8-bit D/A, 8-channel, serial	4.65	4.55	4.30
290968CH	TLV5628DW	SOIC-16	8-bit D/A, 8-channel, serial	4.49	3.95	3.75
290976CH	TLV5628CN	DIP-16	8-bit D/A, 8-channel, serial	4.69	3.79	2.99
54025CH	AD7523JN	DIP-16	8-bit D/A 1-input (±1 LSB), 150ns	2.99	2.49	2.19
289895CH	TLC7524CD	SOIC-16	8-bit D/A, multiplier, parallel	2.59	2.19	1.79
290052CH	TLC7524CN	DIP-16	8-bit D/A, multiplier, parallel	2.75	2.39	1.95
290087CH	TLC7528CN	DIP-20	8-bit D/A, multiplier, parallel	2.69	2.25	1.92
290095CH	TLC7528IDW	SOIC-20	8-bit D/A, multiplier, parallel	2.55	2.49	2.05
287339CH	AD7628KN	DIP-20	8-bit D/A 2-input (±1LSB), 350ns	4.35	3.79	3.70
239425CH	TLC5615	DIP-8	10-bit D/A 1-input (±1 LSB), 12µs	3.49	2.79	2.32
287380CH	AD9760AR	SOIC-28	10-bit D/A, 125Msps	8.19	7.39	6.69
287443CH	AD9832BRU	TSSOP-16	10-bit DDS D/A, 25MHz	8.89	8.15	7.29
287451CH	AD9850BRS	SSOP-28	10-bit DDS D/A w. comp., 3.5ns	20.09	18.45	17.39
287347CH	AD767JN	DIP-24	12-bit D/A 1-input (± LSB), 4us	20.49	19.49	18.50
287355CH	AD767KN	DIP-24	12-bit D/A 1-input (± LSB), 4us	20.09	18.69	16.65
14980CH	DAC1222LCN	DIP-18	12-bit D/A (.20% Lin.), 500ns	9.95	8.95	8.05
290802CH	TLV5610IDW	SOIC-20	12-bit D/A, 8-channel, serial	15.99	15.25	14.49
290845CH	TLV5610IPW	TSSOP-20	12-bit D/A, 8-channel, serial	16.05	15.25	14.49
290829CH	TLV5613IDW	SOIC-20	12-bit D/A, 1-channel, parallel	5.09	4.99	4.75
290853CH	TLV5613IPW	TSSOP-20	12-bit D/A, 1-channel, parallel	5.09	5.00	4.75
290896CH	TLV5614CD	SOIC-16	12-bit D/A, 4-channel, serial	13.95	13.25	12.59
290933CH	TLV5614CPW	TSSOP-16	12-bit D/A, 4-channel, serial	13.95	13.25	12.59
287398CH	AD9764AR	SOIC-28	14-bit D/A, 125Msps	14.25	11.75	11.15
239433CH	DAC712	DIP-28	16-bit D/A 1-input (±1 LSB), 10µs \$24.79	20.05	18.93	17.96
242771CH	DAC714P	DIP-16	16-bit D/A w/ serial interf. (±1 LSB), 10µs	39.35	33.75	29.55
243336CH	DAC715	SOIC-28	16-bit D/A w/ bus interface (±1 LSB), 10µs	34.55	33.65	32.85
243344CH	DAC716	DIP-16	16-bit D/A w/ serial interf. (±1 LSB), 10µs	27.45	25.65	24.85

Low D	rop	-Out Vo	ltage	Regulators	Pack	age (see	pg 34)
Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
299743CH	+	LM1084IT-ADJ	TO-220	5A low drop out adj. pos. volt. reg.	\$1.75	\$1.32	\$.98
299735CH	+	LM1084IT-3.3	TO-220	5A low drop out 3.3V pos. volt. reg.	1.75	1.32	.98
309770CH	+	LM1084IT-12	TO-220/3	5A low drop-out pos. 12V volt. reg	. 1.17	1.09	1.02
314587CH	ANA	AP1084T	TO-220/3	5A LDO pos volt reg (adj)	. 1.19	.95	.77
282781CH	+	LD1085D2M33	DD	3A low drop pos volt reg. adj./fixed .	. 1.89	1.71	1.54
282757CH	+	LT1085CT	TO-220	3A low drop pos volt reg. adj./fixed .	. 1.79	1.61	1.45
302471CH	+	LM1085IS-ADJ	TO-263	3A low drop out adj. pos. volt. reg	. 1.29	.97	.72
302463CH	+	LM1085IS-3.3	TO-263	3A low drop out 3.3V pos. volt. reg	. 1.29	.97	.72
302455CH	+	LM1085IT-ADJ	TO-220	3A low drop out adj. pos. volt. reg.	1.29	.97	.72
244304CH	+	LD1086D2M	TO-263/3	Adjustable, low dropout volt. reg. \$1-	1.15	1.09	.90
244312CH	+	LD1086D2M33	TO-263/3	3.3V, low dropout voltage reg	. 1.07	.96	.89
245585CH	+	LD1086D2M50	TO-263/3	5.0V, low drop positive voltage reg.	. 1.09	.97	.88
314579CH	ANA	AP1086D	TO-252/3	1.5A LDO pos volt reg (adj)	. 1.25	.91	.67
245526CH	+	LM1086CS-ADJ	TO-263/3	1.5A low dropout positive reg	. 1.09	.81	.59
192305CH	+	LM1086CT-3.3	TO-220/3	1.5A low dropout positive reg. (3.3V) .	1.09	.81	.60
192313CH	+	LM1086CT-5.0	TO-220/3	1.5A low dropout positive reg. (5V)	. 1.18	.87	.64
192292CH	+	LM1086CTADJ	TO-220/3	1.5A low dropout positive reg	. 1.09	.79	.59
314552CH	ANA	AP1086D33	TO-252/3	1.5A low dropout positive volt reg (3.3V)	1.19	.90	.665
314536CH	ANA	AP1086T	TO-220/3	1.5A pos LDO voltage reg (adj)	. 1.25	.91	.67
314501CH	ANA	AP1086T33	TO-220/3	1.5A pos LDO voltage reg (3.3V)	. 1.25	.91	.67
314481CH	ANA	AP117D	TO-252/3	1A pos adj LDO voltage reg	. 1.03	.76	.551
314472CH	ANA	AP1117D50	TO-252/3	1A pos LDO voltage reg (5V)	. 1.03	.76	.551
314464CH	ANA	AP117E25	SOT-223/3	1A pos LDO voltage reg (2.5V)	91	.68	.494
314448CH	ANA	AP1117E50	SOT-223/3	1A pos LDO voltage reg (5V)	89	.68	.494
314376CH	ANA	AP1117T	TO-220/3	1A pos. adj. LDO voltage reg	. 1.19	.865	.66
242042CH	+	LM1117DT-3.3	TO-252/3	800mA low dropout linear reg	75	.66	.49
242069CH	+	LM1117DT-5.0	TO-252/3	800mA, 5V, low dropout voltage reg	74	.54	.52
251782CH	+	LM1117MPX-ADJ	SOT-223/3	800mA low drop out linear regulator	37	.35	.33

## Jameco's Got the Docs

We offer free technical documents for most of the products we carry. Find them easily on the product spec page @ www.Jameco.com.



	Manufacturer Cross Reference Table										
Manufacturer	Code	Manufacturer	Code	Manufacturer	Code	Manufacturer	Code	Manufacturer	Code		
Analog Devices	ADI	Linear Technology	LTC	Microchip	MCH	On Semi	ON	Texas Instruments	TI		
Anachip	ANA	Maxim Corporation	MAX	National Semiconductor	NSC	ST Micro	ST	Jameco Value Offerino	<b>y</b> +		

Low D	rop	-Out Vo	Itage	Regulators (Con't) P	ackage	e (see	above)
Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
242114CH	+	LM1117T-3.3	TO-220/3	800mA, 3.3V, low dropout voltage reg. \$	\$.73	\$.56	\$.51
243539CH	+	LM1117T-ADJ	TO-220/3	800mA, adj., low dropout voltage reg.	.82	.71	.59
300222CH	LTC	LT1129CT	TO-220	Micropower low drop out reg. w/ shutdown 3	3.99	3.89	3.69
314325CH	ANA	AP1184K5	TO-263/5	4A ultra LDO adjustable regulator 5	5.29	3.69	3.29
244216CH	+	LT1585ACT-3.3	TO-220/3	5A, 3.3V, low dropout voltage reg 4	1.39	3.97	3.57
244224CH	+	LT1585ACT-ADJ	TO-220/3	5A, adjustable, low dropout volt. reg 4	1.75	4.20	3.60
244144CH	<b>+</b>	LT1587CM	DD/3	3A, low dropout voltage regulator 5	5.85	4.00	3.80
244152CH	+	LT1587CT-3.3	TO-220/3	3A, 3.3V, low dropout voltage reg 1	1.39	1.03	.76
244161CH	+	LM1587CT-ADJ	TO-220/3	3A low dropout fast response reg 1	1.65	1.22	.90
310244CH		TLV2217-33KC		Low drop-out 3.3V volt reg. PNP		.64	.515
310121CH		LM2930T-5.0		3-terminal positive voltage regulator		.69	.65
121030CH		LM2931AZ-5.0		5V low dropout regulator		.43	.31
23368CH	+	LM2931CT		3V-24V low dropout regulator \$.66		.53	.50
256612CH		LM2931D-5.0		5V low dropout regulator		.40	.35
121048CH		LM2931Z-5.0		5V low dropout regulator		.36	.34
		LM2937ES-2.5		' '	1.55	1.16	.87
		LM2937ET-5.0		5V 500mA low drop out regulator 1		1.00	.88
		LM2937ET-10		10V 500mA low drop out regulator 1		1.10	.91
192495CH		LM2940CT-12		12V low dropout reg. (max. 45Vin) 1		1.02	.75
107182CH 245657CH		LM2940CT-5	TO-220/3	1 3 ,		1.05	.77
121064CH		LM2941CS LM2941CT	TO-263/5 TO-220/5	1A low dropout adjustable regulator 1		1.33	.99
23376CH	+	LM2941C1		1A low dropout adjust. reg. (45Vin)  1A low dropout adjust. reg. (60Vin) 1	1.59	.88	.71
301292CH		LP2950ACZ-3.0		Low power, low drop out volt. reg 1		.88	.83
121101CH		LP2950ACZ-5.0		100mA low pwr. low dropout volt. reg		.59	(.44)
266781CH				100mA low pwr. low drop out volt. reg		.74	.54
266845CH		LP2950CZ-3.0		100mA low pwr. low drop out volt. reg		.60	.47
266757CH		LP2950CZ-5.0		100mA low pwr. low drop out volt. reg		.59	.29
		LP2967IBP-2533		· · · · · · · · · · · · · · · · · · ·	3.05	2.76	2.48
266589CH	NSC	LP2967IBP-2828	BPA-8		3.05	2.76	2.49
266626CH	NSC	LP2967IMM-2528	MSOP-8		2.79	2.50	2.25
266407CH	NSC	LP2967IMM-2533	MSOP-8		2.79	2.50	2.25
266597CH	NSC	LP2967IMM-2626	MSOP-8	Dual micopower 150ma low drop-out reg. 2	2.79	2.52	2.27
266642CH	NSC	LP2967IMM-2828	MSOP-8	Dual micopower 150ma low drop-out reg. 2	2.79	2.50	2.25
266706CH	NSC	LP2986ILD-3.0	LLP-8	uPwr, 200mA ultra low dropout fixed volt reg. 1	1.99	1.79	1.62
266722CH	NSC	LP2987ILD-5.0	LLP-8	Same as above w/ prog. pwr-on reset delay 1	1.99	1.79	1.62
246545CH	NSC	LM3480IM3-3.3	SOT-23/3	100mA quasi low dropout linear volt. reg	.99	.90	.81
246553CH	NSC	LM3480IM3-5.0	SOT-23/3	100mA quasi low dropout linear volt. reg	.99	.74	.55
192524CH	<b>+</b>	LM3940IT-3.3	TO-220/3	1A low dropout, for 5V to 3.3V 1	1.95	1.76	1.36
252241CH	+	MC29152BU	TO-263/5	1.5A high current low dropout reg 2	2.85	2.68	2.35
251344CH	TI	TP76201DBVR	SOT-23/5	100mA low pwr low output adj. LDO linear reg 1	1.29	1.16	1.04
Voltag	ge	Regulat	ors	P	ackage	e (see	above)
Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
282618CH	+	LM117H	TO-39	3-terminal adjustable regulator \$6		\$5.17	\$4.20
282036CH	+	LM140LAH-5.0	TO-39	3-terminal positive regulator 5		4.27	3.24

Voltag	ge	Regulat	ors	P	ackaç	je (see	above)
Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
282618CH	+	LM117H	TO-39	3-terminal adjustable regulator \$6	.45	\$5.17	\$4.20
282036CH	+	LM140LAH-5.0	TO-39	3-terminal positive regulator 5	.55	4.27	3.24
302375CH	+	LM217T	TO-220	1.2 - 37V adj. positive voltage reg	.65	.62	.59
23499CH	+	LM309K	TO-3/2	5V 1A regulator (0°C to +125°C) 4	.99	3.85	2.98
192268CH	+	LM317AT	TO-220/3	3-terminal adjustable reg. (1.2V-37V) 1	.75	1.25	.95
192276CH	+	LM317HVT	TO-220/3	3-terminal adjustable reg. (1.2V-57V) 1	.99	1.77	1.31
23544CH	+	LM317K	TO-3/2	1.5A adj. pos. reg. (1.2V-37V) 1	.75	1.49	1.12
193551CH	+	LM317LM	SOIC-8	100mA adj. pos. regulator (1.2V to 37V)	.35	.30	.27
23552CH	+	LM317LZ	TO-92	100mA adj. pos. reg. (1.2V-37V)	.23	.22	.20
23579CH	+	LM317T**	TO-220/3	1.5A adj. pos. reg. (1.2V-37V)	.45	.39	.34
**20 pieces	s incli	uded in Linear	kit na 37				

luctor NSC		ST Micro		ST	Jameco Value O	ffering -	<b>+</b>
Volta	_		ors (	Continued)	Pack	age (see	e above)
Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
23667CH	+	LM323K	TO-3/2	5V 3A positive regulate			\$2.29
23798CH	+	LM337K	TO-3/2	1.5A/3 term. adj. neg.	-		3.06
193586CH		LM337LM	SOIC-8	1.5A adj. neg. regulator			.42
296841CH		LM337LZ	TO-92	3-terminal adj. negativ			.395
23819CH	+	LM337T*		1.5A/adj. neg. reg. (-1.			.44
23835CH	+	LM338K	TO-3/2	5A adj. pos. reg. (1.2V			3.25
192284CH		LM338T		5A adjustable regulato			.99
23931CH 23940CH	<b>+</b>	LM350K LM350T	TO-3/2	3A/3 term. adj. pos. re 3 amp. adj. power regi	• • •		2.89 .69
239134CH		LM431ACM	SOIC-8	Programmable shunt r			.21
278248CH		TL431AILP	TO-92	Adjustable precision s			.23
314069CH				Prog. shunt regulator	3		.455
314051CH		AP431AVL	TO-92	Prog. shunt regulator			.475
314018CH		AP431V	TO-92	Prog. shunt regulator			.265
239142CH	+	LM431BCM	SOIC-8	Programmable shunt r			.26
251862CH	+	LM431CIM	SOIC-8	Adj. precision zener sh	nunt regulator37	.32	.28
276525CH	I MAX	MAX637ACPA	DIP-8	Preset/Adj. output CMOS in	vert switching reg. 6.25	4.95	4.46
276517CH	I MAX	MAX637ACSA	SOIC-8	Preset/Adj. output CMOS in	vert switching reg. 6.45	4.93	3.60
214050CH	+	LM723CD	SOIC-14	High precision voltage	regulator32	.27	.20
24467CH	+	LM723CN*	DIP-14	Voltage regulator (2V-	•		.23
301719CH		LM723H	TO-5	2V - 37V, 150mA adj.			2.07
298071CH		MAX755CSA		-5V/adj., neg. output, invert, c	•		3.46
291688CH		LT1074CT		5A step-down switchin	5 5		8.55
300185CH		LTC1147LCS8 LM2524DN		High efficiency step-dow	0 0		2.95
192330CH		LM2574HVN-5.0		200mA regulating PW Simple switcher 0.5A ste			2.49
192348CH		LM2574HVN-12		Simple switcher 0.5A ste			2.33
245551CH		LM2574N-ADJ		Simple switcher 0.5A ste	-		1.05
156566CH	+	LM2574N-5	DIP-8	Step-down 5-voltage r	egulator 1.49	1.27	.95
279638CH	I NSC	LM2575HVT-5.0	TO-220	Simple switcher 1A step	down volt reg. 4.35	3.35	3.15
279603CH	l NSC	LM2575HVT-12	TO-220	Simple switcher 1A step	down volt reg. 4.35	3.64	3.28
192399CH	+	LM2576HVT-12	TO-220/5	Simple switcher 3A step	down volt. reg. 5.89	4.38	3.33
192381CH				Simple switcher 3A step	•		4.13
192372CH				Simple switcher 3A step	ŭ		3.04
245569CH				Simple switcher 3A step			1.36
120977CH				Simple switcher 3A step			1.19
300821CH 300871CH		LM2586S-ADJ LM2586S-5.0		Simple switcher 3A flyback Simple switcher 3A flyback	•		5.06 5.06
		LM2586S-12		Simple switcher 3A flyback	-		5.06
300919CH		LM2586T-ADJ		Simple switcher 3A flyback	•		5.06
192410CH				Simple switcher 5A fly	•		4.90
300804CH		LM2588S-ADJ		Simple switcher 5A flyback	3		5.55
300847CH	NSC	LM2588T-ADJ	TO-220	Simple switcher 5A flyback	reg. w/ shutdown 7.79	7.45	7.05
300759CH	I NSC	LM2592HVS-AD.	JTO-263	Simple switcher 2A step do	wn voltage reg 5.55	4.59	4.33
		LM2592HVS-5.0		Simple switcher 2A step do			4.33
		LM2592HVT-ADJ		Simple switcher 2A step do			3.53
		LM2592HVT-3.3		Simple switcher 2A step do	0 0		4.33
		LM2594M-ADJ		Simple switcher 0.5A step d			1.65
		LM2594M-3.3 LM2594N-ADJ		Simple switcher 0.5A step d	5 5		2.17
		LM2594N-ADJ LM2594N-3.3		Simple switcher pwr. cor Simple switcher 0.5A step d			2.28 2.17
		LM2595S-ADJ		Simple switcher 1A step d			4.05
		LM2595S-12		Simple switcher 1A step d	5 5		2.74
		LM2595T-ADJ		Simple switcher 1A step d	5 5		2.07
		ed in Linear ki		Blue Part No. = Lir			
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S4 81		0	DI	* Prepackaged: order in increm			
Part No. 192452CH		Cross Ref.	Pkg.	Description Simple switcher pair copy 150kHz 1A 9	1 05	10 \$1.74	100
310391CH				Simple switcher pwr. conv. 150kHz 1A \$			\$1.59
290626CH				Simple switcher 3A step down voltage reg Simple switcher 3A step-down voltage reg.	3.89	2.99 2.99	2.85
290626CH				Simple switcher 3A step-down voltage reg.	3.95	3.25	3.09
290597CH				Simple switcher 3A step-down voltage reg.	4.69	3.58	3.22
90731CH				1.5A high eff. synchronous switching reg.		3.85	3.69
290749CH				1.5A high eff. synchronous switching reg.		2.99	2.8
290757CH				5V hi effeciency simple switcher		3.55	3.3
312397CH				5-bit prog. synchronous buck reg		2.65	2.51
312397CH				1.5A high eff. synch. switching reg		3.25	3.12
90765CH		LM2672N-5.0		5V hi efficiency simple switcher		3.15	2.90
90888CH		LM2674M-ADJ		Adjustable voltage hi efficiency switcher		2.35	2.20
90861CH		LM2674N-5.0		5V hi efficiency simple switcher		2.35	2.20
		LM2675N-ADJ		,			
91012CH				Simple switch 1A step down volt. reg., pwr cvrtr		2.99	2.8
91039CH		LM2678S-ADJ		Simple switcher 5A step down volt. reg., hi-eff		5.29	5.0
		LM2678T-5.0		Simple switcher 5A step down volt. reg., hi-eff		5.29	5.05
90651CH		LM2596S-ADJ		Simple switcher 3A step down volt. reg		2.99	2.28
90394CH		LM2599S-ADJ		Simple switcher 3A step down volt. reg		3.85	3.6
90925CH		LM2675LD-ADJ		Simple switcher 1A step down volt. reg. pwr cnvtr.		4.35	4.1
45649CH	+			Ultra-low quiescent current 3.3V reg.		2.93	1.9
07166CH	+		TO-92	Ultra-low quiescent current 5V reg		1.68	1.18
39151CH	+	LP2951CM	SOIC-8	Adjustable micropower voltage regulator		.68	(.4
77077CH	+	LP2952IM		Adj. micropower low pwr volt reg		1.75	1.4
1246CH	+	7805K	TO-3/2	5V 1A pos. voltage reg. (LM340K-5)		3.95	3.0
1262CH	+	7805T**		5V 1A pos. voltage reg. (LM340T-5) .		.32	.2
1182CH	+	78L5CZ**	TO-92	5V 100mA pos. voltage regulator		.24	.2:
93754CH	+	78L05ACM		5V 100mA pos. voltage regulator		.22	.1
92233CH	+	78M05		5V 500mA pos. voltage regulator		.32	.24
1297CH	+	7806T		6V 1A pos. voltage reg. (LM340T-6) .		.25	.2
93762CH	+	78L06ACM		6.2V 100mA pos. voltage regulator		.26	(.1
1300CH	+	7808CT*		8V 1A pos. voltage reg. (LM340T-8) .		.35	.2
92225CH	+	78L09ACZ	TO-92	9V 100mA pos. voltage regulator		.23	.17
1318CH	+	7812K	TO-3/2	12V 1A pos. voltage reg. (LM340K-12)		1.79	1.59
1334CH	+	7812T**		12V 1A pos. voltage reg. (LM340T-12) .		.32	.28
1203CH	+	78L12CZ*	TO-92	12V 100mA pos. voltage regulator		.19	.15
93771CH	+	78L12ACM	SOIC-8	12V 100mA pos. voltage regulator		.29	(.2:
92241CH	+	78M12CT		12V 500mA pos. voltage regulator		.27	.2
1369CH	+	7815K	TO-3/2	15V 1A pos. voltage reg. (LM340K-15)		1.12	1.03
1377CH	+	7815T*		15V 1A pos. voltage reg. (LM340T-15		.25	.22
93789CH	+	78L15ACM		15V 100mA pos. voltage regulator	7	.20	(.1
92250CH	+	78M15CT		15V 500mA pos. voltage regulator \$-2		.14	.13
94634CH	+	7818T		18V 1A pos. voltage reg. (LM340T-18		.44	.3
1414CH	+	7824T		24V 1A pos. voltage reg. (LM340T-24)		.34	.3
1238CH	+	78S40CN	DIP-16	1.25V-40V 1.5A switching regulator		1.08	.8
1457CH	+	7905T*		5V 1A neg. voltage reg. (LM320T-5) .		.38	.3
1422CH	+	79L05ACP	TO-92	5V 100mA neg. voltage regulator		.22	.16
93797CH	+	79L05ACM	SOIC-8	-5V 100mA neg. voltage regulator		.14	.1:
1449CH	+	79M05CT		3-terminal negative regulator		.62	.4
1481CH	+	7912CT*		12V 1A neg. voltage reg. (LM320T-12)		.27	.2
1431CH	+	79L12CZ	TO-92	12V 100mA neg. voltage regulator		.21	.10
93800CH	+	79L12ACM	SOIC-8	-12V 100mA neg. voltage regulator		.20	.18
1502CH	+	7915CT*		15V 1A neg. voltage reg. (LM320T-15		.27	.2
94749CH	+	79L15ACZ	TO-92	15V 100mA neg. voltage regulator		.30	.2
93818CH	+	79L15ACM	SOIC-8	-15V 100mA neg. voltage regulator		.19	.1
16881CH		MC34063AD		1.5A Step-up/down inverting switch reg.		.432	.35
16945CH		MC34063AP1	DIP-8	1.5A Step-up/down inverting switch reg. $\ldots$		.473	.43
14317CH	ANA	AP34063N	DIP-8	1.6A adjustable voltage regulator		.66	.49
			t, right	**20 pcs. in Linear series IC cabinet ki			

Audio				Pa	kage (se	pg 36)
Part No.	Mfr.	Cross Ref.	Pkg.	Description	1 10	100
277624CH	<b>+</b>	INA103KP	DIP-16	Low noise/distortion instr. amp \$8.5	5 \$7.67	\$6.91
277632CH	+	INA103KU	SOIC-16	Low noise/distortion instr. amp 8.5	5 7.67	6.91
278408CH	<b>+</b>	TPA112D	SOIC-8	150mW stereo audio power amplifier8	9 .75	.60
310560CH	+	TPA122D	SOIC-8	150mW stereo audio power amplifier9	8 .83	.75

Audio	(Co	ntinued)			Packa	ige (see	pg 36)
Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
243678CH	ADI	OP275GP	DIP-8	Dual JFET audio op amp \$2.75	\$1.95	\$1.62	\$1.52
243660CH	ADI	OP275GS	SOIC-8	Dual JFET audio op amp		1.52	1.16
24037CH	NSC	LM380N	DIP-14	2-watt audio power amp	94	.87	.63
24088CH	NSC	LM383T	TO-220/5	7-watt audio high power amp	5.95	5.39	4.95
24096CH	+	LM384N	DIP-14	5-watt audio amp	1.45	1.17	.87
193623CH	+	LM386M-1	SOIC-8	Low volt. audio power amp. 250mW/12V	31	.28	.24
24125CH	+	LM386N-1*	DIP-8	Low voltage audio amp. 250mW/6V	48	.35	.29
24133CH	+	LM386N-3*	DIP-8	Low voltage audio amp. 500mW/9V	69	.59	.49
24483CH	+	LM725CN	DIP-8	Instrumentation op amplifier	2.39	1.84	1.42
279697CH	+	LM833D	SOIC-8	Dual audio op amp	41	.36	.32
120942CH	+	LM833N	DIP-8	Dual audio op amp	71	.57	.43
295718CH	NSC	LM1203N	DIP-28	RGB video amp	4.55	4.09	3.69
24942CH	ON	MC1350P	DIP-8	Video IF amp (12V operation)	1.95	1.85	1.75
23270CH	NSC	LM1875T	TO-220/5	20-watt power audio amplifier	1.45	1.39	1.19
245534CH	NSC	LM1877M-9	SOIC-14	Dual audio power amplifier	1.39	1.04	.76
23288CH	NSC	LM1877N-9	DIP-14	Dual power audio amplifier	95	.84	.61
245542CH	NSC	LM1881M	SOIC-8	Video synchronous separator	2.69	2.04	1.57
107140CH	NSC	LM1881N	DIP-8	Video synchronous separator	2.69	2.05	1.55
243547CH	NSC	LM1894N	DIP-14	DNR noise reduction	3.15	2.80	2.34
302519CH	NSC	LM1971M	SOIC-8	Audio attenuator with mute	2.35	1.79	1.65
302447CH	NSC	LM1972M	SOIC-20	2-channel audio attenuator	4.15	3.18	2.89
302421CH	NSC	LM1972N	DIP-20	2-channel audio attenuator	4.55	3.69	3.50
32897CH	ST	TDA2002V	TO-220/5	8-watt audio high power amp	3.55	3.18	2.87
315344CH	+	TDA2040V	PWAT-5	20W hi-fi audio power amp	2.45	2.25	2.14
275830CH	ADI	OPA2134PA	DIP-8	High-performance audio op amp	2.39	1.93	1.58
275821CH	ADI	OPA2134UA	SOIC-8	High-performance audio op amp	2.25	2.02	1.82
312063CH	+	SSM2141P	DIP-8	$\label{eq:high-common-mode} \mbox{High common-mode rejection diff. line rec } \dots$	3.19	2.79	2.69
252013CH	NSC	LM3875T	TO-220/11	56W high perf. audio power amp	5.19	4.11	3.70
126834CH	NSC	LM3876T	TO-220/11	40W high perf. audio amp. with mute	4.75	3.66	2.82
320670CH	NSC	LM3886TF	TO-220/11	68W high perf. audio amp w/ mute	4.55	3.49	2.70
192516CH	NSC	LM3886T	TO-220/11	68W high perf. audio amp w/ mute	4.35	3.32	2.57
302201CH	NSC	LM4752T	TO-220	Stereo 11W audio power amp	2.45	1.82	1.35
302199CH	NSC	LM4860M	SOIC-16	1W audio power amp w/ shutdown mode	1.59	1.19	.88
267047CH	NSC	LM4864M	SOIC-8	725mW audio pwr amp w/ shutdown mode	1.45	1.06	.78
302181CH	NSC	LM4871M	SOIC-8	3W audio power amp w/ shutdown mode	1.45	1.09	.80
316873CH	+	MC34119D	SOIC-8	LP audio amp (500mW, 16VDC)	93	.71	.54
316865CH	+	MC34119P	DIP-8	LP audio amp (500mW, 16VDC)	1.02	.66	.61
*10 pieces i	includ	ed in Linear k	it, below				

Comp	ara	tors		Pack	age (se	e <b>pg 36)</b>
Part No.	Mfr.	Cross Ref.	Pkg.	Description 1	10	100
311052CH	NSC	LM111H	TO-5/8	Voltage comparator\$3.39	\$2.60	\$2.01
311044CH	NSC	LM111J-8	DIP-8	Voltage comparator 4.35	3.32	3.15
282061CH	+	LM139D	SOP-14	Low pwr, low offset volt quad comp95 $$	.80	.65
282087CH	+	LM139J	CDIP-14	Low pwr, low offset volt quad comp 2.29	1.74	1.30
302501CH	NSC	LM193H	TO-5	Dual low-power comparator 4.65	3.55	2.78
302391CH	+	LM211D	SOIC-8	Hi-speed, strobed diff. comparator39 $$	.315	.28
302383CH	+	LM211P	DIP-8	Hi-speed, strobed diff. comparator26 $$	.23	.185

Linea	ir and Interface IC Kit	
10 each:	TL072CP, TL074CN, TL082CP, TL084CN,	_
	MAX232CPE, LM301N, LM308N, LM311N,	-
	LM337T, LF353N, LF356N, LM358N, LM386N-1,	Ξ
	LM386N-3, LM393N, LF411CN, LF412CN,	ē
	LMC555CN, LM556N, LM723CN, LM1458N,	-
	DS1488N, DS1489N, ULN2003AN, ULN2803A,	
	NE5532N, 7808T, 78L12CZ, 7815T, 7905T, 7912CT, 7915CT	
20 each:	LM317T, LM324N, LM339N, LM741CN, LM555CN,	J
	7805T 78L05C7 7812T	

78	305T, 78L05CZ, 7812T		84988CH	
Part No.	Description	Wt. (lbs.)	1	10
84988CH	480 pcs. (40 types) analog IC kit	6.0	\$182.95	\$164.65
130411CH	Refill for 84988CH (480 pcs.)	1.3	169.95	145.95

Found a product at a lower print advertised price? We'll beat that price by 10% right down to our cost.



Manufacturer Cross Reference Table										
Manufacturer	Code	Manufacturer	Code	Manufacturer	Code	Manufacturer	Code	Manufacturer	Code	
Analog Devices	ADI	Linear Technology	LTC	Microchip	MCH	On Semi	ON	Texas Instruments	TI	
Anachip	ANA	Maxim Corporation	MAX	National Semiconductor	NSC	ST Micro	ST	Jameco Value Offerino	<b>y</b> +	

Anachip	)	AN	A IVI	axim Corporation WAX	ivational	Semicor
Comp	ara	tors (Co	ntinu	•	ckage (see	
		o	D.	* Prepackaged: order in incr		
Part No.		Cross Ref.	Pkg.	Description	1 10	100
302367CH	+	LM219D		Dual high speed voltage comparator \$.8		\$.74
302287CH 212126CH		LM239D LM239N	DIP-14	Low-power, low-offset volt. quad comp		.245 .12
212126CH 213188CH		LM306N	DIP-14	Low pwr. low offset volt quad comp		. 12
193543CH		LM311D	SOIC-8	Voltage comparator		.185
23528CH	+	LM311N*	DIP-8	Voltage comparator		.19
251918CH		LP311D	SOIC-8	Voltage comparator		.52
239193CH		LP311P	DIP-8	Differential comparator		(.48)
245690CH		LM319M		High speed dual comparator		.235
23632CH	+	LM319N	DIP-14	Hi-speed dual comparator		.27
246537CH	+	LM339AM		Low pwr low offset volt. quad comp :		.28
143888CH	+	LM339AN	DIP-14	Low power quad comparator	29 .23	.193
193594CH	+	LM339M	SOIC-14	Low pwr low offset volt quad comp2	27 .23	.185
23851CH	+	LM339N**	DIP-14	Quad comparator	* .19	.165
251977CH	+	LP339M	SOIC-14	Ultra low power quad comparator	74 .54	.40
121099CH	+	LP339N	DIP-14	Quad low-power comparator	38 .365	.305
312047CH	TI	TLC372CD	SOIC-8	LinCMOS dual differential comp	76 .64	.515
312055CH	TI	TLC372CP	DIP-8	LinCMOS dual differential comp	76 .61	.515
314712CH	+	TLC374CD	SOP-14	LinCMOS quad differential comp8	85 .71	.62
314704CH	+	TLC374CN	DIP-14	LinCMOS quad differential comp8	84 .71	.57
310404CH		TS374IN	DIP-14	Quad low-power CMOS volt. comp	93 .80	.72
246633CH		LM392M	SOIC-8	Low power op amp./volt. comp 1.0	09 1.01	.73
120900CH		LM392N	DIP-8	Low power op amp./volt. comp 1.3		.75
246641CH		LM393AM	SOIC-8	Low pwr low offset volt dual comp:		.22
212177CH		LM393AN	DIP-8	Low pwr low offset volt dual comp		.135
193631CH		LM393D	SOIC-8	Low pwr offset voltage dual comp		(.14)
24281CH	+	LM393N*	DIP-8	Dual comparator		.17
277093CH		LMV393M TL712CD	SOIC-8	Low volt, general purpose dual comp		.46
315328CH 214041CH		TL712CD	DIP-8	Differential comparator 1.2  Differential comparator 1.2		.86
	TI	TL712CF	DIP-8	High speed differential comparator 2.0		2.15
		LMC7211AIM		Comp. w/ rail-to rail input, push pull output 1.0		.90
277190CH		LMC7211BIM		Comp. w/ rail-to rail input, push pull output 1.0		.85
277114CH		LMC7221AIM		Comp. w/ rail-to rail input, open drain output 1.8		1.08
297844CH	+			Hi-speed, low-pwr precision volt. comp 9.4		6.87
		LT1016CN-8		Fast precision comparator, 10ns 4.9		3.45
		LT1016CS8		Ultrafast precision 10ns comparator4.8		2.76
310279CH	TI	TLV2352ID	SOIC-8	LinCMOS dual low-voltage diff. comp. 1.0	69 1.55	1.49
280006CH	TI	TLV2354IN	DIP-14	LinCMOS quad low volt diff comp 2.8	85 2.56	2.31
245577CH	+	LM2901M	SOIC-14	Low pwr low offset volt. quad comp:	30 .25	.20
23296CH	+	LM2901N	DIP-14	Quad comparator		.156
245614CH	+	LM2903M	SOIC-14	Low power low offset volt. dual comp2	28 .25	.22
23309CH	+	LM2903N	DIP-8	Low power low offset volt. dual comp		.21
311036CH		TL3016CD	SOIC-8	Ultra-fast low-power precision comp. 1.8		1.12
278213CH		TL3016ID	SOIC-8	Ultra-fast, low pwr precision comp 2.2		1.83
278230CH		TL3116CD	SOP-8	Ultra-fast, low pwr precision comp 1.8		1.51
278221CH		TL3116ID	SOP-8	Ultra-fast, low pwr precision comp 1.9		1.62
245711CH		LM3302D		Low pwr low offset volt. quad comp4		.285
107238CH		LM3302N	DIP-14	Low pwr low offset volt. quad comp4		.36
309964CH		TLC3704CD		LinCMOS Quad micro volt. comp		.68
280137CH		TLC3704CN		Quad uPwr LinCMOS volt comp 1.0		.84
		LMC6772AIM		Dual uPwr rail-to-rail input w/open drain output 2.		1.63
*10 pcs. in	Linear	series IC cab	inet kit, p	g 37 **20 pcs. in Linear series IC cabine	et kit, pg 37	

Buffer	S			Pack	age (see	above)
Part No.	Mfr.	Cross Ref.	Pkg.	Description 1	10	100
23051CH	+	LH0002CN	DIP-10	General purpose buffer \$12.25	\$10.25	\$7.95
313277CH	<b>+</b>	ZXBF05N14	SOIC-14	4-CH buffer w/ high cap load 2.75	2.44	2.19
277552CH	TI	BUF634P	DIP-8	250mA high speed buffer 5.89	5.31	4.78
277544CH	TI	BUF634T	TO-220	250mA high speed buffer 7.85	7.60	6.35
277579CH	TI	BUF634U	SOIC-8	250mA high speed buffer 5.89	5.33	4.79
300249CH	LTC	LT1010CN8	DIP-8	150mA high speed buffer 4.35	4.25	4.05

Part No.	Mfr.	Cross Ref.	Pkg.	Description 1	10	100
193471CH	+	OP07CD	SOIC-8	Very low offset single bipolar op amp. \$.62	\$.34	\$.31
27852CH	+	OP07CP	DIP-8	Ultra-low-offset-voltage op amp61	.59	.56
252988CH	+	OP07DP	DIP-8	Very low offset single bipolar op amp62	.52	.42
23106CH	+	LM10CLN	DIP-8	Low voltage (1.1 volt) op amp 1.95	1.79	1.65
120715CH	+	LM10CN	DIP-8	Op amp and voltage reference\$3.19 2.49	1.92	1.49
120723CH	NSC	LM12CLK	TO-3/4	80W op amp 23.45	21.10	18.99
213090CH	+	TL022CP	DIP-8	Dual low power op amp	.84	.63
252996CH	+	OP27EZ	CDIP-8	Low noise hi speed precision op amp. 13.65	12.28	11.05
115300CH	+	OP27EP	DIP-8	Low noise precision op amp 4.19	3.85	3.24
115318CH	+	OP27GP	DIP-8	Low noise prec. op amp. (-40° to 80°C) 2.09	1.69	1.27
275805CH	TI	OPA27GP	DIP-8	Ultra-low noise, precision op amp 2.19	1.98	1.79
275784CH	TI	OPA27GU	SOIC-8	Ultra-low noise, precision op amp 2.35	2.09	1.89
253032CH	+	TL031CD	SOIC-8	Enhanced JFET low pwr/offset op amp78	.66	.53
213102CH	+	TL031CP	DIP-8	Enhanced JFET low pwr/offset op amp71	.60	.45
279671CH	+	TL032ACP	DIP-8	Enhanced JFET low pwr/offset op amp. 1.85	1.67	1.51
253059CH	+	TL032CD	SOIC-8	Enhanced JFET low pwr/offset op amp. 1.02	.92	.74
213111CH	+	TL032CP	DIP-8	Enhanced JFET low pwr/offset op amp74	.69	.64
253235CH	+	TL034CD	SOIC-14	Enhanced JFET low pwr/offset op amp1.12	.91	.83
214068CH	+	TL034CN	DIP-14	Enhanced low pwr/offset op amp 1.05	.84	.64
275768CH	+	OPA37GP	DIP-8	Ultra-low noise, precision op amp 2.45	2.19	1.97
275750CH	+	OPA37GU	SOIC-8	Ultra-low noise, precision op amp 2.45	2.19	1.97
213129CH	+	TL052ACP	DIP-8	Enhanced JFET low offset op amp 4.79	4.31	3.65
309981CH	+	TL052CD	SOIC-8	Dual Enhanced JFET prec. op amp1.49	1.21	.91
253243CH	+	TL054ACD	SOIC-14	Enhanced JFET low offset op amp 5.39	4.83	4.35
213153CH	+	TL054ACN	DIP-14	Enhanced JFET low offset op amp 1.99	1.82	1.65
213145CH	+	TL054CN	DIP-14	Enhanced JFET low offset op amp 1.29	1.10	.82
213137CH	+	TL061ACP	DIP-8	Low power JFET input op amp61	.52	.39
242106CH	+	TL061IP	DIP-8	Low power JFET op amp	.62	.45
252283CH	+	TL062ACD	SOIC-8	Low power JFET input op amp66	.50	.37
33161CH	+	TL062CP	DIP-8	Low power JFET op amp. (VCC)\$-32 .27	.25	(.20
253104CH	+	TL064BCD	SOIC-14	Low power JFET input op amp69	.58	.47
253139CH	+	TL064BCN	DIP-14	Low power JFET input op amp69	.58	.47
33179CH	+	TL064CN	DIP-14	Low power JFET input op amp56	.45	.34
213081CH	+	TL071ACP	DIP-8	Low noise JFET input op amp59	.50	.37
33187CH	+	TL071CP	DIP-8	Low noise JFET op amp	.25	.23
278264CH	+	TLC071CD	SOIC-8	Wide-band, high-output drive op amp 1.09	.94	.75
278272CH	+	TLC071IP	DIP-8	Wide-band, high-output drive op amp 1.19	.99	.80
213073CH	+	TL072ACP	DIP-8	Low noise JFET input op amp53	.36	.26
253147CH	+	TL072BCP	DIP-8	Low noise JFET input op amp70	.59	.48
193501CH	+	TL072CD	SOIC-8	Low noise JFET dual op amp39	.33	.25
33195CH	+	TL072CP*	DIP-8	Low noise JFET dual op amp26	.25	.24
278299CH		TLC072CD	SOIC-8	Wide-band, high-output drive op amp 1.45	1.12	1.06
278281CH	+	TLC072CP	DIP-8	Wide-band, high-output drive op amp 1.39	1.12	.84
213065CH	+	TL074BCN	DIP-14	Low noise JFET input op amp	.45	.41
	+	TL074CD	SOIC-8	Low noise JFET quad op amp	.42	.17

•	ıps	(Continue	ed)		Packa	ge (see	pg 38)
Part No.	•	Cross Ref.	Pkg.	Description	1	10	100
33216CH	+	TL074CN*	DIP-14	Low noise JFET quad op amp	\$.48	\$.43	\$.345
	+	TLC074CD		Wide-band, high-output drive		1.64	1.43
278328CH		TLC074CN	DIP-14	Wide-band, high-output drive		1.64	1.43
	+	TLC080AIP	DIP-8	Wide-band, high-output drive		.96	.82
278344CH	+	TLC080IP	DIP-8	Wide-band, high-output drive		.96	.82
213057CH 253155CH		TL081ACP TL081CD	DIP-8 SOIC-8	JFET input op amp  JFET input op amp		.45	.415
33232CH	+	TL081CP	DIP-8	JFET input op amp		.30	.26
214076CH	+	TL082ACP	DIP-8	JFET input op amp		.29	.28
253198CH	+	TL082BCP	DIP-8	JFET input op amp	56	.42	.36
193527CH	+	TL082CD	SOIC-8	JFET input dual op amp		.24	.14
33241CH	+	TL082CP*	DIP-8	JFET input dual op amp		.40	.30
	+	TL084ACN	DIP-14	JFET input op amp.		.45	.38
	<b>+</b> +	TL084BCD TL084CD		JFET input op amp JFET input quad op amp		.63 .41	.58 .39
33267CH	+	TL084CD*	DIP-14	JFET input quad op amp		.40	.37
	+	LM124D		Low power quad op amp. mil temp.		1.13	1.05
126818CH		LM124J		Low power quad op amp. mil temp.		1.69	1.31
276488CH	TI	OPA124U	SOIC-8	Low noise precision DiFET op amp.		7.59	6.85
	TI	OPA124UA	SOIC-8	Low noise precision DiFET op amp.		9.02	8.15
	TI	OPA130UA	SOIC-8	Low power precision FET input		2.69	2.42
	+	OPA137PA	DIP-8	FET op amp\$1.7		1.31	1.25
243694CH 302480CH	+	OPA137UA LM158H	SOIC-8 TO-5	FET input op amp.		1.48 3.39	1.41 2.61
	+	LM201AD	SOIC-8	Low power dual op amp  Op amp industrial temp		.49	.47
302404CH		LM201AD	DIP-8	Op amp industrial temp		.58	.54
	+	LM224D		Low power quad industrial temp		.265	.245
302359CH	+	LM224J	CDIP-14	Low power quad industrial temp	1.65	1.40	1.32
212118CH	+	LM224N	DIP-14	Low power quad industrial temp	28	.26	.22
275813CH	TI	OPA234UA	SOIC-8	Low pwr precision sngl supply	2.15	1.92	1.73
	+	TLC252BCD	SOIC-8	LinCMOS dual op amp		1.95	1.48
315221CH 302261CH		TLC252BCP	DIP-8	LinCMOS dual op amp industrial tom		2.16	2.14
	+	LM258D LM258N	SOIC-8 DIP-8	Low pwr dual op amp industrial tem Low pwr dual op amp industrial tem		.25	.23 .175
279742CH		TLC271CD	SOIC-8	LinCMOS prog. low pwr op amp		.63	.48
	TI	TLC271CP	DIP-8	LinCMOS programmable low pwr		.50	.45
279806CH	+	TLC272CD	SOIC-8	LinCMOS precision dual op amp		.60	.45
143917CH	<b>+</b>	TLC272CP	DIP-8	LinCMOS precision dual op amp. $\hdots$	72	.55	.41
280233CH		TLC27L2CD	SOIC-8	LinCMOS precision dual op amp		.57	.46
	TI	TLC27L2CP		LinCMOS precision dual op amp		.51	.42
	TI TI	TLC27M2CD TLC27M2CP		LinCMOS precision dual op amp LinCMOS precision dual op amp		.57 .57	.46 .46
	TI	TLC27M2CI		LinCMOS precision quad op amp		.87	.83
242000CH	+	TLC274ACN		Quad precision op amp		.66	.60
242018CH	+	TLC274BCN		Quad precision op amp		.95	.86
242026CH	+	TLC274CN	DIP-14	CMOS precision quad op amp		.53	.445
	+	TLC274IN	DIP-14	Quad CMOS op-amp.		.60	.49
	TI			LinCMOS precision quad op amp		.68	.55
	TI	TLC27L4CN		LinCMOS precision quad on amp		.55	.47
280161CH 312784CH	†	TL277CD	SOIC-14	LinCMOS precision quad op amp LinCMOS precision dual op amp		.68 1.37	.55 1.31
280241CH		TLC277CP	DIP-8	LinCMOS precision dual op amp		1.23	.98
	TI	TLC27L7CD		LinCMOS precision dual op amp		1.24	1.12
	TI	TLC27M7CD	SOIC-8	LinCMOS precision dual op amp	1.39	1.24	1.12
280153CH	TI	TLC27M7CP	DIP-8	LinCMOS precision dual op amp		1.24	1.12
	+	LM301AH	TO-5/8	Operational amplifier		1.64	1.27
212151CH		LM301AN	DIP-8	Operational amplifier		.42	.38
245673CH		LM308AH	TO-5/8	Precision op amp.		2.51	1.95
23464CH 245681CH	+	LM308N* LM318M	DIP-8 SOIC-8	Precision op amp Precision high speed op amp		3.99 .85	3.49
23608CH	+	LM318N	DIP-8	Precision hi-speed op amp		.54	.48
245702CH		LM324AM		Low power quad op amp		.23	.20
		LM324AN	DIP-14	Low power quad op amp		.23	.20
212169CH		1 1 1 2 2 4 12	SOIC 14	Low nower gued on emp	22	20	.18
212169CH 86721CH	+	LM324D	3010-14	Low power quad op amp	23	.20	.10
	+	LM324D LM324N** LP324N	DIP-14 DIP-14	Low power quad op amp	28	.20 .24 .59	.16 .21 .45

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Part No.	•	Cross Ref.	Pkg.	Description	Раска 1	ge (see	e <b>pg</b> 38 100
241963CH	<b>*</b>	LMV324M		Low voltage, general purpose		\$.60	\$.54
245438CH	+	LF347BD		Quad JFET input (wide bandwidth)		1.18	1.07
245420CH	<b>+</b>	LF347M		Quad JFET input (wide bandwidth)		.61	.48
22904CH	+	LF347N	DIP-14	Quad JFET input op amp. (wide band)		.30	.28
275776CH	+	OPA347PA	DIP-8	Micropower rail-to-rail op amp		1.06	.86
246570CH	+	LM348M		Quad 741 op amp		.57	.42
23915CH	+	LM348N	DIP-14	Quad 741 op amp. (UPC4741C)		.30	.21
22912CH	+	LF351N	DIP-8	BIFET op amp.		.35	.29
245518CH	+	LF353D	SOIC-8	Dual JFET input (wide bandwidth)	37	.30	.23
22939CH	+	LF353N*	DIP-8	Dual BIFET (comp. w/ TL082CP)	39	.37	.35
193607CH	+	LF356M	SOIC-8	JFET input op amp. (wide band)	77	.56	.42
22971CH	+	LF356N*	DIP-8	JFET input op amp. (wide band)	79	.67	.49
22998CH	+	LF357N	DIP-8	JFET input op amp. (wide band decom.)	2.55	2.33	1.70
246588CH	+	LM358AM	SOIC-8	Low power dual op amp	23	.22	.20
120862CH	+	LM358AN	DIP-8	Low power dual (elect improv.)	29	.25	.23
193615CH	+	LM358D	SOIC-8	Low power dual op amp	21	.18	.13
23966CH	+	LM358N*	DIP-8	Low power dual op amp	27	.23	.20
277106CH	+	LMV358M	SOIC-8	Low-volt rail-to-rail output dual	85	.64	.46
276736CH	+	MAX410CPA	DIP-8	Sngl 28MHz low noise, low volt prec		4.20	3.79
119941CH	+	LF411ACN	DIP-8	Low offset low drift JFET input \$3.65		2.62	2.00
23018CH	+	LF411CN*	DIP-8	Low offset drift JFET input op amp		.90	.66
119950CH	+	LF412ACN <b>⊙</b>		Dual JFET op-amp		3.16	2.44
193640CH	+	LF412CD	SOIC-8	Low offset drift JFET input dual		.37	.33
23026CH	+	LF412CN*	DIP-8	Low offset drift JFET input dual		.76	.56
106681CH	+	LF442CN	DIP-8	Dual low power JFET input op amp		.99	.73
119984CH	+	LF444ACN	DIP-14	Quad low power JFET input op amp		1.82	1.66
119992CH	<b>♦</b>	LF444CN	DIP-14	Quad low power JFET input op amp		1.09	.79
312805CH		OP467GP	DIP-14	Quad precision high speed op amp . 1		11.48	
312813CH		OP467GS		Quad precision high speed op amp		8.52	7.49
276613CH		MAX474CSA MAX492CPA		Dual 10MHz single supply op amp		4.03	3.63
276533CH		MAX492CFA		Dual upwr, sngl supply rail-to-rail Dual upwr, sngl supply rail-to-rail		4.05 3.86	3.63 2.50
311773CH		IMCP601-I/P		2.8MHz, 2.7V to 5.5V single supply CMOS		.55	.525
311773CH		IMCP602-I/P		Dual, 2.8MHz, 2.7V-5.5V single supply CMOS.		.71	.68
311765CH		IMCP602-I/SN		Dual, 2.8MHz, 2.7V to 5.5V single supply CMOS		.71	.68
		IMCP603-I/P		Single w/ CS, 2.8MHz, 2.7V-5.5V single CMOS		.58	.551
311239CH		MCP6S21-I/P	DIP-8	1-ch PGA low-gain single ended rail-to-rail I/O		1.65	1.60
311255CH		IMCP6S22-I/P	DIP-8	2-ch PGA low-gain single-ended rail-to-rail I/O		1.89	1.82
311247CH	МСН	I MCP6S22-I/SN	SOIC-8	2-ch PGA low-gain singe-ended rail-to-rail I/O		1.99	1.89
310367CH	ADI	AD626AN	DIP-8	Low-cost single supply diff. amplifier		5.69	5.35
313314CH	ADI	AD626AR	SOIC-8	Low-cost single supply diff. amplifier	5.95	5.62	5.34
311221CH	MCH	MCP6S28-I/P	DIP-8	8-ch PGA low-gain single-ended rail-to-rail I/O	3.35	3.18	3.03
267266CH	+	LMC660CM	SOIC-14	CMOS quad operational amplifier	1.45	1.08	.81
143976CH	+	LMC660CN	DIP-14	CMOS quad operational amplifier	1.65	1.23	.91
120926CH	+	LM675T	TO-220/5	Power op amplifier	6.19	5.25	4.39
24491CH	+	LM733CN	DIP-14	Differential amplifier	1.15	.99	.89
24521CH	+	LM741CH	TO-5/8	Op amplifier	2.75	2.10	1.62
24539CH	+	LM741CN**	DIP-8	Op amplifier (ULN2151)		.25	.19
24563CH	+	LM747CN	DIP-14	Dual 741 op amplifier		3.85	3.39
299938CH		LM747H	TO-10	Dual op amp		3.29	3.07
311132CH			DIP-8	High performance video op amp		5.24	4.84
311087CH			DIP-8	Dual low-power current feedback		5.19	4.92
277085CH			SOIC-14	· · · · ·		.97	.92
246668CH				Low noise quad operational amp		.80	.75
143896CH			DIP-14	Low-noise quad operational amp		1.12	.82
		LT1001CN8	DIP-8	Precision op amplifier		2.75	2.50
239231CH			DIP-14	Dual, matched precision op amp	4./5	3.22	2.74
		= Limited Qua r series IC cab			binet ki	it. pg 37	
. o pos. III			NIL, P	g	A	., 69 01	
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Manufacturer Cross Reference Table											
Manufacturer	Code	Manufacturer	Code	Manufacturer	Code	Manufacturer	Code	Manufacturer	Code		
Analog Devices	ADI	Linear Technology	LTC	Microchip	MCH	On Semi	ON	Texas Instruments	TI		
Anachip	ANA	Maxim Corporation	MAX	National Semiconductor	NSC	ST Micro	ST	Jameco Value Offering	+		

On Arr	nns	(Continu	ıed)		Dackar	10 (soo	above
Part No.	_	Cross Ref.	Pkg.	Description	аска <u>ц</u> 1	je (see 10	100
239214CH		LT1006CN8	DIP-8	Precision op-amplifier\$		\$1.92	
		LT1007CS8	SOIC-8	Low-noise, high speed precision		2.53	2.00
		I T1012CN8	DIP-8	Picoamp input curr, microvolt offset, low noise		3.32	2.57
239273CH 239169CH	<b>+</b>	LT1012CN6	DIP-8	Dual precision op amplifier		1.10	1.00
252005CH	+	LT1013DD	SOIC-8	Dual precision op amplifier		.66	.54
239177CH	+	LT1014DN	DIP-14	Quad precision op amplifier		2.99	2.81
300193CH		LTC1050CN8		Precision zero-drift w/ int. cap		2.48	2.09
		LTC1051CN8		Dual precision zero-drift w/ int. cap		7.25	6.91
193682CH	+	LM1458M	SOIC-8	Dual op amplifier		.22	(.16)
23131CH	+	LM1458N*	DIP-8	Dual op amplifier		.26	.20
302498CH	+	LM1815N-ND	DIP-14	Adaptive variable sensor amp	3.19	2.45	1.89
310172CH	TI	TLE2021CD	SOIC-8	Excalibur hi-speed, low-pwr prec	1.05	.86	.79
280129CH	TI	TLE2021CP	DIP-8	Excalibur hi speed low pwr prec	1.09	.92	.74
310236CH	TI	TLE2022CD	SOIC-8	Excalibur hi-speed, low-pwr prec	1.69	1.39	1.30
280111CH	TI	TLE2022CP	DIP-8	Excalibur hi speed low pwr prec	1.45	1.30	1.17
280102CH	TI	TLE2024CDW	SOIC-16	Excalibur hi speed low pwr prec	2.85	2.56	2.29
280090CH	TI	TLE2024CN	DIP-14	Excalibur hi speed low pwr prec		2.53	2.28
310658CH	TI	TLE2027CD	SOIC-8	Excalibur hi-speed, low-pwr prec		1.65	1.55
310682CH	TI	TLE2072CD	SOIC-8	Excalibur low-noise hi-speed JFET input		1.79	1.73
310674CH	TI	TLE2072CP	DIP-8	Excalibur low-noise hi-speed JFET input		1.85	1.77
275848CH	TI	OPA2131UJ		· · ·		2.59	2.34
279996CH	TI	TLV2450CP		General purpose FET-input op amp			
				Rail-to-rail I/O op amp. w/ shutdown		1.01	.75
279988CH	TI	TLV2451CD	SOIC-8	Rail-to-rail I/O op amp. w/ shutdown		1.15	1.04
279970CH	TI	TLV2451CP	DIP-8	Rail-to-rail I/O op amp. w/ shutdown		1.00	.90
272209CH	TI			Rail-to-rail I/O op amp. w/ shutdown		1.76	1.59
279961CH	TI	TLV2454CN		Rail-to-rail I/O op amp. w/ shutdown		1.83	1.64
310308CH	TI	TLV2474CD	SOIC-14	Quad low-pwr rail-to-rail input/output w/ shutdown	2.09	1.79	1.73
279945CH	TI	TLV2474CN	DIP-14	2.8MHz rail-to-rail I/O hi drive w/shtdwn	2.05	1.74	1.57
279953CH	TI	TLV2474IN	DIP-14	2.8MHz rail-to-rail I/O hi drive w/shtdwn	2.15	1.83	1.64
315096CH	+	TLC27L2BCD	SOIC-8	LinCMOS precision dual op amp	.75	.69	.68
315088CH	+	TLC27L2BCP	DIP-8	LinCMOS precision dual op amp	.69	.58	.47
315061CH	+	TLC27L4ACD	SOIC-14	LinCMOS precison quad op amp	.79	.66	.538
315053CH	+	TLC27L4ACN	IDIP-14	LinCMOS precision quad op amp	.71	.60	.57
245606CH	+	LM2902M	SOIC-14	Low power quad op amplifier		.24	.19
57007CH	+	LM2902N	DIP-14	Low power quad op amplifier		.23	.22
245622CH	+	LM2904M	SOIC-8	Low power dual op amplifier		.23	.20
121005CH	+	LM2904N	DIP-8	Low power dual op amplifier		.20	.19
	TI	THS3001CD		420MHz hi speed curr. feedback		5.32	4.79
12116CH	+	CA3080E	DIP-8	Op transconductance amp. (100135) .		.89	.80
			DIP-8				
12183CH	+	CA3130E		CMOS op amplifier		.78	.71
12204CH	+	CA3140E	DIP-8	Bi-MOS op amplifier		.55	.51
246721CH	+	MC3303D		Quad op amplifier		.32	.25
212193CH	+	MC3403N	DIP-14	Quad bipolar op amplifier		.24	.22
246617CH	+	LM3900D		Quad amplifier		.63	.52
24168CH	+	LM3900N	DIP-14	Quad amplifier	.77	.65	.53
239185CH	TI	THS4031CD	SOIC-8	100MHz op-amp.		3.48	2.61
278150CH	TI	THS4032CD	SOIC-8	100MHz low noise, hi speed amp	6.49	5.31	5.26
278176CH	TI	THS4082CD	SOP-8	175MHz low noise, hi speed amp	5.69	5.14	4.63
278168CH	TI	THS4082ID	SOP-8	175MHz low noise, hi speed amp	5.89	5.32	4.79
279929CH	TI	TLV4112CD		High output drive w/ shutdown		1.58	1.35
29356CH	+	RC4136N	DIP-14	Quad op amp. (XR4136)		.68	.62
		OPA4137PA		Low cost FET input op amp.		2.11	1.90
//5/4ILH				Programmable op amp. \$4.39			
275741CH		LMASSOCN	DID.8		1 15	42	
121072CH 251256CH	<b>♦</b>	LM4250CN TLC4501ACD	DIP-8	Precision CMOS rail-to-rail output		.86 2.35	.63 2.09

Op Am	าตร	(Continu	ied)	Pack	age (see	above
Part No.	•	Cross Ref.	Pkg.	Description 1	age (see	100
300767CH	TI	TLC4501AID		Precision CMOS rail-to-rail output \$2.59		
251264CH	TI	TLC4501CD	SOIC-8	Precision CMOS rail-to-rail output 2.35	2.25	2.02
251281CH	TI	TLC4502AID	SOIC-8	Precision CMOS rail-to-rail output 3.69	3.58	3.45
310092CH	TI	TLC4502AQE	SOP-8	Self-calibrating prec CMOS rail-to-rail output 3.89	3.68	3.45
251272CH	TI	TLC4502ID	SOIC-8	Precision CMOS rail-to-rail output 3.75	3.35	3.01
254861CH	+	KA4558	DIP-8	Dual op amp	.37	.33
251150CH	+	MC4558CD	SOIC-8	Wide bandwidth dual bipolar op amp31	.29	.27
251125CH	+	MC4558CN	DIP-8	Wide bandwidth dual bipolar op amp31	.29	.27
311933CH	+	EL5100IS	SOIC-8	200MHz slew enhanced volt feedback 2.45	2.30	2.10
311941CH	+	EL5106IS	SOIC-8	350MHz fixed gain amplifier w/ enable 2.29	2.04	1.81
311925CH	+	EL5108IS	SOIC-8	450MHz fixed gain amplifier w/ enable 2.55	2.24	1.98
252970CH	+	NE5532AP	DIP-8	Dual low noise op amp	.58	.47
27385CH	+	NE5532N*	DIP-8	Dual low noise op amp	.55	.415
27406CH	+	NE5534	DIP-8	Low noise op amp	.66	.54
193746CH	+	NE5534D	SOIC-8	Low noise op amp	.47	.445
311001CH	MCH	MCP6002-I/P	DIP-8	1MHz bandwidth low-power op amp $\dots$ .45	.42	.40
310990CH	MCH	MCP6002-I/SN	SOIC-8	1MHz bandwidth low-pwr op amp43	.415	.40
311714CH	MCH	MCP6021-I/SN	SOIC-8	2.5V, 10MHz rail-to-rail input/output 1.27	1.16	1.10
311722CH	MCH	MCP6021-I/P	DIP-8	2.5V, 10MHz rail-to-rail input/output 1.27	1.24	1.18
		LMC6035IBP		Low pwr 2.7V sngl supply CMOS 1.59		.87
		LMC6035IM		Low pwr 2.7V single supply CMOS 2.05		1.85
267039CH		LMC6041IN		CMOS single micropower op amp 1.69		.93
302121CH		LM6132AIM		Dual low pwr rail-to-rail in/out, 10MHz 3.59		2.14
302105CH		LM6132BIM		Dual low pwr rail-to-rail in/out, 10MHz 2.75		1.87
		LM6132BIN		Dual low pwr rail-to-rail in/out, 10MHz 2.69		2.09
302009CH				Quad low pwr rail-to-rail in/out, 10MHz 3.85		2.95
				Quad low pwr rail-to-rail in/out, 10MHz 3.15		2.45
302076CH		LM6134BIN		Quad low pwr rail-to-rail in/out, 10MHz 3.15	2.59	2.45
302068CH		LM6142AIM		Dual rail-to-rail in/out, 17MHz 4.65		3.62
301997CH 301989CH		LM6152ACM		Quad rail-to-rail in/out, 17MHz 5.55		4.25
		LM6171AIM		Dual rail-to-rail in/out, 75MHz GBW 3.99 Hi speed, low pwr, low distortion volt feedback 2.99		3.10 2.35
		LM6171BIM		Hi speed, low pwr, low distortion volt feedback 2.59		2.01
301903CH		LM6171BIN		Hi speed, low pwr, low distortion volt feedback 2.59		1.53
311992CH		LM6181M	SOIC-8	100mA, 100MHz current feedback 2.35		1.70
301874CH		LM6181IN	DIP-8	100mA, 100MHz current feedback 2.79		1.79
		LMC6442AIM		Dual µpwr, sngl-supply rail-to-rail		1.85
		LMC6442IM		Dual micropower rail-to-rail output single supply 2.55		1.62
		LMC6442IN		Dual micropower rail-to-rail output single supply 2.75		1.75
267119CH		LMC6462AIM		Dual μpwr, sngl-supp rail-to-rail I/O CMOS 2.39		1.95
126906CH	NSC	LMC6462AIN	DIP-8	μροwer rail-to-rail I/O CMOS op amp. 2.59	2.25	2.02
126893CH	NSC	LMC6482AIN	DIP-8	CMOS dual rail-to-rail input/output 2.09	1.56	1.16
251168CH	NSC	LMC6482AIM	SOIC-8	CMOS dual rail-to-rail input/output 2.05	1.56	1.17
267127CH	NSC	LMC6482IM	SOIC-8	CMOS dual rail-to-rail I/O op amp 1.69	1.27	.95
267223CH	NSC	LMC6482IN	DIP-8	CMOS dual rail-to-rail I/O op amp 1.89	1.40	1.04
				CMOS quad rail-to-rail I/O op amp $3.49$		2.05
		LMC6484AIN		CMOS quad rail-to-rail in/out op amp 4.09		2.42
				CMOS quad rail-to-rail I/O op amp 3.79		2.35
		LMH6702MA		Single ultra low-distortion, wideband 3.25		2.35
				Single ultra low-distortion, wideband 3.25		1.92
				Tiny low pwr w/ rail-to-rail I/O 1.69		.93
		LMC7111AIN		Tiny CMOS op amp w/ rail-to-rail I/O 1.55	1.14	.84
		LM7171AIM		Hi speed, hi output current volt feedback 2.89		1.98
		LM7171AIN		Hi speed, hi output current volt feedback 2.89	2.25	1.98
10 pcs. in	Linea	r series IC cab	ınet kit, p	g <i>s i</i>		

Package (see pg 40)

Thousands of new ICs are in the pipeline for addition and not shown below. Call us to see if you can save 10-20%.

**Linear Series (Continued)** 

Op An	nps	(Continu	ıed)		Packa	ge (see	pg 40)
Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
301751CH	NSC	LM7171BIM	SOIC-8	Hi speed, hi output current volt feedback	\$2.55	\$2.12	\$1.98
301823CH	NSC	LM7171BIN	DIP-8	$\mbox{\rm Hi}$ speed, hi output current volt feedback $.$	2.55	1.96	1.75
301840CH	NSC	LM7121IM	SOIC-8	235MHz tiny low pwr volt feedback	2.59	1.95	1.49
301701CH	NSC	LM7301IM	SOIC-8	Low pwr rail-to-rail in/pout, 4MHz GBW	. 2.09	1.56	1.17
301655CH	NSC	LM7301IM5	SOT-23/5	Low pwr rail-to-rail in/pout, 4MHz GBW	1.99	1.51	1.12
315281CH	+	ICL7611DCBA	SOIC-8	1.4MHz LP CMOS op amp	85	.83	.79
315272CH	+	ICL7611DCPA	DIP-8	1.4MHz LP CMOS op amp	76	.63	.58
311159CH	ADI	AD8002AR	SOIC-8	Dual 600MHz, 50mW, curr. feedback	4.85	4.19	3.95
312776CH	ADI	AD8042AR	SOIC-8	Low-cost, high speed rail-to-rail	4.65	3.58	2.97
312750CH	ADI	AD8052AR	SOIC-8	Low-cost, high speed rail-to-rail	2.55	2.08	1.75
312768CH	ADI	AD8052ARM	MSOP-8	Low-cost, high speed rail-to-rail	3.35	2.54	2.11
255257CH	ADI	AD8091AR	SOIC-8	Low cost high speed rail-to-rail	1.35	1.20	1.08
255231CH	ADI	AD8092ARM	MSOP-8	Low cost high speed rail-to-rail	1.45	1.30	1.18
311095CH	ADI	AD8307AN	DIP-8	Low-cost DC-500MHz 92dB logarithmic	13.29	12.63	12.00
311116CH	ADI	AD8307AR	SOP-8	Low-cost DC-500MHz 92dB logarithmic	9.45	7.85	7.75
255206CH	ADI	AD8510AR	SOIC-8	Prec. low noise/input bias curr. JFET input	2.45	2.18	1.96
279591CH	ADI	AD8515ART	SOT-23/5	1.8V low pwr CMOS rail-to-rail I/O	98	.83	.67
192532CH	+	LM13700N	DIP-16	Dual op transcon. w/ diodes/buffer	1.49	1.19	.79
277704CH	+	MC33202P	DIP-8	Low-voltage rail-to-rail op amp	1.15	.97	.78
251117CH	+	MC34072D	SOIC-8	Single supply 3V-44V op amp	91	.85	.79
251061CH	+	MC34072P	DIP-8	Single supply 3V-44V op amp	91	.85	.79

Linea	r Se	eries		Pack	age (se	e <b>pg 40)</b>
Part No.	Mfr.	Cross Ref.	Pkg.	Description 1	10	100
25751CH	+	MF10CN	DIP-20	General purpose dual active filter \$3.09	\$2.37	\$1.83
16301CH	+	DS0026CN	DIP-8	Dual mos clk. driver (5MHz)(TC426CPA) 4.95	4.45	3.99
239281CH	+	DG201BDJ	DIP-16	Quad analog switch 1.35	1.26	1.11
239290CH	+	DG202BDJ	DIP-16	Quad analog switch \$2.75 1.99	1.90	1.81
239311CH	+	DG211BDJ	DIP-16	Quad analog switch 1.36	1.23	1.10
239329CH	+	DG211CJ	DIP-16	SPST quad channel analog switch 1.99	1.75	1.49
302332CH	+	LM231AN	DIP-8	Precision voltage to frequency con 7.35	6.99	6.62
302316CH	+	LM231N	DIP-8	Precision voltage to frequency con 5.29	4.25	3.84
302324CH	+	LM234Z-3	TO-92	3-terminal adjustable current source 2.55	1.95	1.50
302308CH	+	LM234Z-6	TO-92	3-terminal adjustable current source 1.65	1.22	.91
302295CH	+	LM236D	SOIC-8	2.5V voltage reference	.72	.67
291080CH	+	LM285BYZ-1.2	TO-92	1.2V voltage reference diode, 1% tol 1.75	1.32	1.11
297801CH	+	LM285BYZ-2.5	TO-92	2.5V voltage reference diode 1.89	1.46	1.14
312354CH	+	LM285M	SOIC-8	Adjustable micropower volt. reference .96	.71	.527
312362CH	+	LM285M-1.2	SOIC-8	1.2V micropower volt. reference diode .79	.71	.52
312371CH	+	LM285M-2.5	SOIC-8	2.5V micropower volt. reference diode .79	.71	.527
291055CH	+	LM285Z-1.2	TO-92	1.2V voltage reference, 20mA	.382	.336
291071CH	+	LM285Z-2.5	TO-92	2.5V voltage reference, 10mA	.64	.63
245403CH	ST	L298N	MW-15	Dual full-bridge driver (MULTIWATT-15 pkg.) 2.95	2.55	2.35
245446CH	+	MAX301CPE	DIP-16	Precision dual hi speed ana.switch 4.05	3.22	2.81
245456CH				Precision dual hi speed analog switch 4.59	3.69	3.45
245462CH		MAX303CPE		Precision dual hi speed analog switch . 8.79	6.91	6.22
277051CH	+	MAX303CSE		Precision dual hi speed ana. switch 10.65	8.36	7.53
297828CH	+	LM331AN	DIP-8	5V precision voltage-frequency con. <b>6.75</b>	6.39	6.08
23721CH	+	LM331N	DIP-8	Prec. volt to freq. convrtr. (150ppm/°C) 2.19	1.69	1.30
245729CH		LM334M	SOIC-8	3-terminal adjustable current source 1.12		.61
23739CH	+	LM334Z	TO-92	Adjust current source		.47
291135CH		LM336BZ-2.5		2.5V voltage reference diode 1.55		.87
297676CH		LM336BZ-5.0		5V voltage reference diode	1.16	.87
193578CH		LM336M-2.5		Prec. 2.5V shunt regulator diode \$1.39.96	.72	(.53)
23771CH	+	LM336Z-2.5		Voltage reference (2.5V)		.245
120871CH		LM385BZ-1.2		Volt. ref. diode (1.2 ±1.5%)	.45	.39
120889CH		LM385BZ2.5		Volt. ref. diode (2.5V±1.5%)	.47	.42
24117CH	+	LM385Z1.2	TO-92	Micropower volt. ref. diode (1.2V)49	.45	.40
24109CH	+	LM385Z-2.5		Volt. ref. diode (2.5V±3%)		.395
23000CH	+	LF398N	DIP-8	Sample and hold circuit		.75
309833CH		DG403DJ	DIP-16	Improved, dual, high-speed analog switch 3.75		3.31
245454CH		DG403DY		Improved dual hi speed analog switch 1.69		1.02
245489CH		DG405DJ	DIP-16	Improved dual hi speed analog switch 3.25	2.97	2.56
256541CH 272161CH		DG406DJ DG407DJ	DIP-28 DIP-28	Improvd 16-ch/dual 8-ch CMOS analog mux. 4.15	4.05 5.11	3.89 4.61
272161CH 288227CH				Imprvd 16-ch/dual 8-ch CMOS analog mux. 5.69		
288227CH	*	DG407DN	PLUC-28	8-channel analog multiplexer 6.69	6.34	5.45

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Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
256532CH	+	DG408DJ	DIP-16	Imprvd 8-ch/dual 4-ch CMOS analog mux.	\$1.65	\$1.55	\$1.46
279582CH	+	DG408DY	SOIC-16	Imprvd 8-ch/dual 4-ch CMOS analog mux.	1.59	1.55	1.27
288243CH	+	DG409BN	DIP-16	4-channel analog multiplexer	. 4.25	4.09	3.87
288260CH	+	DG409DJ	DIP-16	4-channel analog multiplexer	. 1.65	1.35	1.27
279574CH	+	DG409DY	SOIC-16	Imprvd 8-ch/dual 4-ch CMOS analog mux.	. 1.55	1.47	1.27
243643CH	+	DG411DJ	DIP-16	Quad precision analog switch	. 1.75	1.65	1.50
243651CH	+	DG411DY	SOIC-16	Quad analog switch	. 1.69	1.66	1.59
256516CH	+	DG412DJ	DIP-16	Improved quad SPST analog switch	. 2.39	1.61	1.06
245358CH	+	DG412DY	SOIC-16	Improved quad SPST analog switch .	. 1.55	1.39	1.28
272137CH	+	DG413DY	SOIC-16	Improved quad SPST analog switch	. 1.49	1.43	1.37
279540CH	+	DG419DJ	DIP-8	Improved SPST/SPDT analog switch.	1.95	1.73	1.69
246561CH	+	DG419DY	SOIC-8	Improved SPST/SPDT analog switch	1.19	1.12	1.08
33347CH	+	TL431CLP	TO-92	Program precision reference	31	.265	.19
279558CH	+	DG441DJ	DIP-16	Improved quad SPST analog switch .	. 1.65	1.48	1.22
256495CH	+	DG442DJ	DIP-16	Improved quad SPST analog switch .	. 1.65	1.48	1.35
256508CH	+	DG442DY	SOIC-16	Improved quad SPST analog switch	. 1.19	1.114	1.10
256487CH	+	DG444DJ	DIP-16	Improved quad SPST analog switch	. 1.39	1.30	1.28
256479CH	+	DG444DY	SOIC-16	Improved quad SPST analog switch	. 1.25	1.19	1.09
256452CH	+	DG445DJ	DIP-16	Improved quad SPST analog switch	. 1.39	1.26	1.10
256444CH	+	DG445DY	SOIC-16	Improved quad SPST analog switch .	. 1.39	1.30	1.24
33355CH	+	TL494CN	DIP-16	Control. ckt. pulse width modulated	43	.325	.265
288391CH	+	DG506AKN	DIP-28	1-channel analog multiplexer	10.49	9.99	9.49
86799CH	+	LM555CM	SOIC-8	Timer (NE555D)	24	.21	.185
27422CH	+	LM555CN**	DIP-8	Timer (MC1455P/NE555V)	27	.23	.19
246676CH	+	LMC555CM	SOIC-8	CMOS 555 timer	65	.47	.35
126797CH	+	LMC555CN*	DIP-8	CMOS 555 timer	54	.49	.44
193658CH	+	LM556CM	SOIC-14	Dual 555 timer	75	.41	.26
24328CH	+	LM556N*	DIP-14	Dual 555 timer	77	.57	.42
27457CH	+	NE558N	DIP-16	Quad timer (NE558C)	68	.62	.52
27473CH	+	NE564N	DIP-16	High frequency phase locked loop	. 1.95	1.49	1.05
24352CH	+	LM565N	DIP-14	Phased locked loop	. 1.59	1.20	.90
193666CH	+	LM567CM	SOIC-8	Tone decoder	5 .33	.30	.28
24395CH	+	LM567CN	DIP-8	Tone decoder	48	.45	.33
277691CH	+	LMC567CM	SOIC-8	Low-power tone decoder	. 1.65	1.29	.97
246650CH	+	LMC567CN	DIP-8	Tone decoder		1.18	1.05
243387CH	+	LMC568CN	DIP-8	Low power phase-locked loop \$1.9	1.65	.88	.80
27490CH	+	NE571N	DIP-16	Compander, subscriber	. 3.29	2.99	2.69
287700CH	+	AD580JH	TO-52	2.5V volt. reference, high precision	. 3.45	2.89	2.42
287734CH	+	AD580LH	TO-52	2.5V volt. reference, high precision	. 9.49	8.05	6.91
287785CH	ADI	AD581KH	TO-5/3	10V volt ref., hi prec., 10mV tolerance	. 8.89	7.54	6.32
287814CH		AD584JH	TO-99	Prog. volt. reference, 30mV tol	. 6.85	5.65	4.72
288155CH	ADI	AD584KN	DIP-8	Prog. volt. reference, 11mV tol	10.69	10.15	9.63
312012CH	ADI	AD586JN	DIP-8	High precision 5V reference	. 5.29	4.29	3.65
312004CH		AD586KR	SOIC-8	High precision 5V reference		5.98	5.09
115174CH			DIP-8	Low cost instrument amplifier		14.85	13.55
310383CH			SOIC-8	Low-cost instrument amplifier		4.25	3.94
115182CH		AD633JN	DIP-8	Low cost analog multiplier		6.97	6.28
241912CH	+	TC646VOA	SOIC-8	3-5V, PWM fan controller		2.27	2.05
242131CH	<b>*</b>	TC648VPA	DIP-8	3-5V, PWM fan controller		2.32	2.08
276509CH		MAX660CSA		CMOS monolithic voltage converter		5.06	3.42
312194CH	+	MAX662ACPA		Pos. 12V 30mA flash memory prog. supply		3.37	3.20
312186CH	+	MAX662ACSA		Pos.12V 30mA flash memory prog. supply		2.79	2.20
312151CH				5A/2A step-down PWM switch mode DC-DC reg		9.13	8.67
25435CH	+	MC846P	DIP-14	Quad 2-input gate		2.95	2.25
287769CH	ADI		TO-5/3	10V voltage reference, high precision		6.39	6.05
315969CH		TC962COE		$\label{eq:linear_problem} \mbox{High current charge pump DC-DC con.} \dots$		2.23	2.20
316515CH	+	TC962CPA	DIP-8	High current charge pump DC-DC con	. 2.49	2.37	2.25
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## **30-Day Money-Back Guarantee**

If you're not completely satisfied with your purchase, simply return the product within 30 days for a refund or exchange. Details on page 258.



Manufacturer Cross Reference Table										
Manufacturer	Code	Manufacturer	Code	Manufacturer	Code	Manufacturer	Code	Manufacturer	Code	
Analog Devices	ADI	Linear Technology	LTC	Microchip	MCH	On Semi	ON	Texas Instruments	TI	
Anachip	ANA	Maxim Corporation	MAX	National Semiconductor	NSC	ST Micro	ST	Jameco Value Offering	g +	

Linear	Linear Series (Continued) Package (see above)									
Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100			
239257CH	+	LT1004CZ-1.2	TO-92	1.2V, micropower voltage reference	\$.68	\$.57	\$.46			
239265CH	+	LT1004CZ-2.5	TO-92	2.5V, micropower voltage reference	.68	.52	.40			
301541CH	+	LT1009CLP	TO-92	2.5V voltage reference diode	.62	.52	.42			
300177CH	LTC	LT1009CZ	TO-92	2.5V voltage reference diode	2.15	1.45	1.25			
300214CH	LTC	LTC1043CN	DIP-18	Dual prec. instr. switch cap. building blocks	4.65	3.15	2.75			
312258CH	MAX	MAX1044CPA	DIP-8	Switched capacitor volt. converters 2	2.35	1.96	1.86			
312240CH	MAX	MAX1044CSA	SOIC-8	Switched capacitor volt. converters 2	2.85	2.38	2.26			
300206CH	LTC	LTC1046CS8	SOIC-8	Inductorless 5V to -5V converter	4.79	3.22	2.79			
278184CH	+	TL1451ACN	DIP-16	Dual pulse-width-mod. control circuit	1.79	1.45	1.11			
118578CH	+	MC1495L	DIP-14	Linear four quadrant multiplier	9.95	8.95	8.05			
23211CH	+	LM1496N	DIP-14	Balanced mod./demodulator (MC1496P)	.65	.60	.54			
311790CH	MCH	MCP1252-33X50	MSOP-8	Low-noise pos. regulated charge pump 2	2.25	2.17	2.07			
314261CH	ANA	AP1501K5	TO-263/5	150kHz, 5A buck PWM DC/DC con 2	2.59	2.02	1.54			
314296CH	ANA	AP1501-50K5	TO-263/5	150kHz, 3A buck PWM DC/DC con	4.05	3.15	2.39			
34278CH	+	ULN2003AN*	DIP-16	Hi-volt/curr. darl. transistor array	.39	.32	.28			
193826CH	+	ULN2003AD	SOIC-16	Hi-volt/curr. darl. transistor array	.39	.35	.29			
34294CH	+	ULN2004AN	DIP-16	Hi-volt/curr. darl. trans. array (XR2204CP)	.35	.30	.25			
241891CH	+	ML2035CP	DIP-8	Serial input prog. sine wave generator	7.89	6.15	5.53			
241883CH	+	ML2036CP	DIP-14	5V, 50kHz prog. sine wave generator 10	6.65	14.96	13.47			
34972CH	+	XR2206CP	DIP-16	Monolithic function generator	3.59	3.29	2.99			
34999CH	+	XR2211N	DIP-14	FSK demodulator/tone decoder	1.79	1.59	1.39			
280081CH	+	TLE2425CD	SOIC-8	Precision virtual ground	1.29	1.05	.80			
280022CH	+	TLE2426CD	SOIC-8	Rail splitter precision virtual ground :	1.19	.91	.82			
280073CH	+	TLE2426CLP	TO-92	Rail splitter precision virtual ground '	1.19	.91	.82			
34315CH	+	ULN2803A*	DIP-18	Hi-volt. hi-curr. darl. transistor array	.69	.59	.49			
123625CH	+	LM2907N-8	DIP-8	Frequency to volt converter	1.55	1.39	.92			
23317CH	+	LM2907N	DIP-14	Frequency to volt converter	1.39	1.11	.83			
245631CH	+	LM2917M	SOIC-14	Frequency to voltage converter	1.99	1.49	1.40			
23350CH	+	LM2917N-8	DIP-8	Frequency to volt converter	1.89	1.46	1.31			
23341CH	+	LM2917N-14	DIP-14	Frequency to volt converter	1.79	1.49	1.29			
12079CH	+	CA3046N	DIP-14	NPN transistor array (ULN2046)	.45	.42	.37			
12124CH	+	CA3081N	DIP-16	Common emitter NPN array (ULN2081)	.69	.59	.54			
12159CH	+	CA3086N	DIP-14	Transistor array NPN (ULN2086)	.56	.52	.46			
12247CH	+	CA3162E	DIP-16	Dual slope & rate analog/digital con	6.79	6.14	5.53			
31974CH	+	SG3524N	DIP-16	Regulating pulse width modulator	.53	.50	.42			
235328CH	+	UC3525AN	DIP-8	SMPS Controller	.57	.56	.50			
314181CH	ANA	AP3842S	SO-8	High perf. current mode PWM contrlr	.76	.64	.504			
314190CH	ANA	AP3842N	DIP-8	High perf. current mode PWM contrlr	.65	.61	.523			
243521CH	+	UC3842AN	DIP-8	30V, current mode PWM controller	.48	.44	.36			
*10 pcs. in l	Linea	r series IC cab	inet kit, p	37						

Awesome Prices in Integrated Circuits!										
Jameco Part No.	Product No.	Jameco® Price	Digi-Key® Price	Mouser® Price	Newark® Price	Minimum Savings Discount				
256541CH	DG406D	\$4.15	\$12.35	_	\$9.27	\$5.12 55.2%				
245420CH	LF347M	\$0.68	\$1.69	\$0.81	\$1.69	\$0.13 16.0%				
309770CH	LM1084IT-12	\$1.17	\$2.57	_	\$1.51	\$0.34 22.5%				
245526CH	LM1086CS-ADJ	\$1.09	\$1.67	_	\$1.58	\$0.49 31.0%				
212126CH	LM239N	\$0.20	\$0.55	\$0.64	\$0.55	\$0.35 63.6%				
192452CH	LM2595T-5.0	\$1.95	\$3.85	_	\$3.89	\$1.90 49.4%				
24109CH	LM285Z	\$0.57	\$0.81	_	\$0.73	\$0.16 21.9%				
245606CH	LM2902M	\$0.27	\$0.72	\$0.41	\$0.67	\$0.14 34.1%				
245614CH	LM2903M	\$0.28	\$0.72	\$0.41	\$0.684	\$0.13 31.7%				
213188CH	LM306N	\$0.69	\$1.05	\$1.11	\$1.05	\$0.36 34.3%				
23608CH	LM318N	\$0.59	\$1.34	\$0.95	\$1.39	\$0.36 37.9%				

Linear Series (Continued) Package (see above)										
Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100			
278926CH	+	UC3842D	SOIC-14	30V, current mode PWM controller	. \$.87	\$.70	\$.53			
243504CH	+	UC3843AN	DIP-8	30V, current mode PWM controller	52	.45	.40			
279443CH	+	UC3844D	SOIC-14	30V, current mode PWM controller	44	.41	.38			
243512CH	+	UC3844N	DIP-8	30V, current mode PWM controller-\$	<sup>.49</sup> .44	.38	.31			
243491CH	+	UC3845N	DIP-8	30V, current mode PWM controller	46	.41	.36			
279451CH	+	UC3846N	DIP-16	40V, current mode PWM controlller	97	.82	.65			
243571CH	+	LM4040AIZ-10	TO-92	Precision micropower shunt volt. ref.	1.79	1.49	.88			
243598CH	+	LM4040AIZ-2.5	TO-92	2.5V, precision micropower volt. ref.	96	.71	.53			
243580CH	+	LM4040AIZ-5.0	TO-92	5.0V, precision micropower volt. ref.	1.79	1.68	1.11			
243619CH	+	LM4040CIZ-2.5	TO-92	2.5V, precision micropower volt. ref.	96	.71	.53			
243601CH	+	LM4040CIZ-5.0	TO-92	5.0V, precision micropower volt. ref.	1.05	.78	.58			
302252CH	NSC	LM4040DIZ-2.	TO-92	Precision micropower shunt volt ref .	99	.74	.54			
302228CH	NSC	LM4040DIZ-5.0	TO-92	Precision micropower shunt volt ref	99	.64	.39			
25275CH	<b>+</b>	MC4044P	DIP-14	Frequency phase detector	. 9.99	7.49	5.25			
29372CH	+	RC4151NB	DIP-8	Volt to freq. converter (XR4151)	. 1.59	1.43	1.29			
312119CH	+	TPS6734ID	SOIC-8	Fixed 12V 120mA boost converter supply	1.95	1.89	1.81			
297924CH	+	TPS6734IP	DIP-8	Fixed 12V, 120mA boost-converter supply	. 1.95	1.59	1.25			
312143CH	TI	TPS6735ID	SOIC-8	Fixed neg 5V 200mA invert DC/DC con	1.95	1.88	1.81			
312135CH	TI	TPS6735IP	DIP-8	Fixed neg 5V 200mA invert DC/DC con	2.15	1.74	1.37			
312127CH	TI	TPS6755ID	SOIC-8	Adjustable inverting DC/DC inverter	. 2.15	1.85	1.81			
288163CH	ADI	AD7501KN	DIP-16	8-channel analog multiplexer	12.15	11.55	10.98			
288180CH		AD7506JN	DIP-28	16-channel analog multiplexer	14.69	13.15	11.75			
51140CH	+	7555IPA	DIP-8	CMOS timer (LM555CN)	33	.31	.29			
51174CH	+	7660CPA	DIP-8	CMOS volt convrtr. (+5 to ±5V) (M660AN	.85	.75	.65			
290301CH		ICL7660ACPA		1.5V - 12V volt converter, 10kHz, supp	. 1.35	1.00	.869			
290335CH		ICL7660SCPA		1.5V - 12V volt converter, 10kHz, parr	1.59	1.16	1.06			
316662CH		ICL7662CBA		Volt converter, 20Vin, 4.5-20Vout		2.79	2.65			
316646CH		ICL7662CPA		Volt converter, 20Vin, 4.5-20Vout		.92	.85			
51879CH	+	8038CCPD	DIP-14	Precision wave form generator		4.49	3.95			
316540CH		TC9400CPD		Volt-Freq / Freq-Volt converter		5.34	5.07			
316531CH				Volt-Freq / Freq-Volt converter		6.03	5.73			
25021CH	ON	MC14411P	DIP-24	Bit rate frequency generator		5.45	4.75			
241841CH		MC14467	DIP-16	Smoke detector		1.04	(.86)			
25064CH	ON	MC14490P	DIP-16	Hex contact bounce eliminator		6.25	5.59			
354597CH		MC14551N	DIP-16	Quad 2-ch. analog multi/demultiplexe		.97	.74			
354626CH		MC14557	DIP-16	1-64 bit variable length shift register		.61	.60			
241832CH		MC145012	DIP-16	Smoke detector		2.14	2.03			
246713CH	ON	MC145151DW2		Parallel input PLL freq. synthesizer		5.37	4.83			
118586CH	ON	MC145151P	DIP-28	Parallel input PLL freq. synthesizer	. 5.85	4.97	(3.73)			

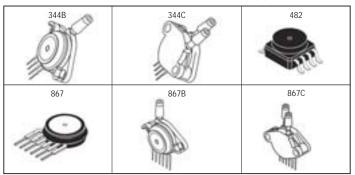
	71000		ces in Int	egrateu	Circuit	
Jameco Part No.	Product No.	Jameco® Price	Digi-Key* Price	Mouser® Price	Newark® Price	Minimum Savings Discount
120820CH	LM335AZ	\$0.81	_	\$1.68	\$1.55	\$0.74 47.7%
193623CH	LM386M-1	\$0.31	\$0.72	_	\$0.765	\$0.41 56.9%
213153CH	TL054ACN	\$1.99	\$5.51	\$5.67	\$5.52	\$3.52 63.9%
213145CH	TL054CN	\$1.29	\$1.80	\$1.89	\$1.80	\$0.51 28.3%
33161CH	TL062CP	\$0.27	\$0.64	\$0.59	\$0.64	\$0.32 54.2%
213065CH	TL074BCN	\$0.51	\$0.84	\$1.11	\$0.84	\$0.33 39.3%
214084CH	TL084ACN	\$0.49	\$0.88	\$0.93	\$0.88	\$0.39 44.3%
242296CH	TLC1543CN	\$3.39	\$4.28	\$4.07	\$4.28	\$0.68 16.7%
290087CH	TLC7528CN	\$2.69	\$3.31	\$3.14	\$3.31	\$0.45 14.3%
243521CH	UC3842 PWM	\$0.48	\$1.90	\$0.58	\$0.859	\$0.10 17.2%
193826CH	ULN2003AD	\$0.39	\$0.84	_	\$0.84	\$0.45 53.6%

These are single unit prices taken from each party's website on March 17, 2005, and do not include shipping & handling charges, volume discounts or any other discounts. Pricing does fluctuate, so please be sure to check when making purchases.



# Sensors & Digital Potentiometers

Thousands of new ICs are in the pipeline for addition and not shown below. Call us to see if you can save 10-20%.



#### **Pressure Sensors**

Package (see above)

Typical applications: air movement control, level indicators, leak detection, robotics and industrial controls

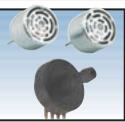
\* To convert kPa to PSI (1kPa = 0.1450377PSI)

		Case	Typical Full Scale	Pmax	Op. Volt.		
Part No.	Product No.	Type	Span (kPa) @ 35mV	(kPa)*	(VDC@mA) 1	10	100
320899CH	MPX10DP	344C	0 - 10	75	3 @ 6 <b>\$10.59</b>	\$8.43	\$8.15
320987CH	MPX2010DP	344C	0 - 10	75	10 @ 6 <b>13.69</b>	10.59	9.95
321015CH	MPX2010GP	344B	0 - 10	75	10 @ 6 <b>13.59</b>	10.46	9.83
321040CH	MPX2050GP	344B	0 - 50	200	10 @ 6 <b>15.05</b>	11.71	10.25
321293CH	MPX505D	867	0 - 50	200	5 @ 7 <b>16.15</b>	13.10	12.40
321314CH	MPX5050GP	867B	0 - 50	200	5 @ 7 <b>17.29</b>	13.59	12.81
321200CH	MPX4115A	867	15 - 115	400	5.1 @ 7 <b>16.69</b>	13.09	12.33
321218CH	MPX4115AP	867B	15 - 115	400	5.1 @ 7 <b>17.29</b>	13.59	12.40
321331CH	MPX5100DP	867C	15 - 115	400	5 @ 7 <b>17.45</b>	13.71	12.92
321234CH	MPX4250AP	867B	20 - 250	1000	5.1 @ 7 <b>17.29</b>	13.59	12.81
321411CH	MPXA4250A6U	482	20 - 250	1000	5.1 @ 7 <b>16.69</b>	13.09	12.33
321373CH	MPX5700GP	867B	0 - 700	2800	5 @ 7 <b>17.29</b>	13.59	12.40

## Don't See the Sensor You Need?

We have even more, see page 141.

Dallac 97C/90C MCII Sorios



Dallas	0/6/096	IVICU	Series	NEW	Package (se	e pg 42)
Part No.	Cross Ref.	Pkg.	Description	INISW	1	10
345295CH	DS89C450-MNL	DIP-40	MCU, 64k flash, u	Itra-high speed	\$12.05	\$11.09
345308CH	DS89C440-MNL	DIP-40	MCU, 32k flash, u	ltra-high speed	11.29	10.75
345316CH	DS89C430-MNL	DIP-40	MCU, 16k flash, u	ltra-high speed	9.99	9.70
345324CH	DS89C420-MCL	DIP-40	MCU, 16k flash, 33M	Hz, ultra-high speed	16.89	13.28
345332CH	DS87C550-QCL	PLCC-68	EPROM, high-spee	d w/ ADC & PWM	24.99	23.23
345341CH	DS87C530-QNL	PLCC-52	EPROM/ROM MCL	w/ real-time cloc	k 30.05	29.75
345359CH	DS87C520-WCL	DIP-40	EPROM/ROM MCI	J, high-speed	50.99	46.65

Tempe	Temperature Sensors Package (see pg 42)											
Part No.	Mfr.	Cross Ref.	Pkg.	Description 1	10	100						
311896CH	+	LM20BIM7	SC70-5	Micro SMD temp. sensor 2.4V 10µA \$1.15	\$.84	\$.61						
107094CH	NSC	LM34CZ	TO-92	Prec. temp. sensor (-40° to +230°F) 4.89	4.52	4.08						
193480CH	NSC	LM34DM	SOIC-8	Prec. temp. sensor (-55' to 300'F) 1.75	1.29	.97						
155192CH	NSC	LM34DZ	TO-92	Prec. temp. sensor (+32° to +212°F) 1.99	1.67	1.23						
302560CH	NSC	LM35CAZ	TO-92	Precision C temp. sensor 5.19	4.14	3.55						
193498CH	NSC	LM35DM	SOIC-8	Prec. temp. sensor (-55° to 150°C) 1.85	1.57	1.18						
192217CH	NSC	LM35DT	TO-220/3	Prec. temp. sensor (-55° to 150°C) 2.55	1.92	1.44						
107107CH	NSC	LM35CZ	TO-92	Prec. temp. sensor (-40° to 110°C) 5.35	4.10	3.16						
155740CH	NSC	LM35DZ	TO-92	Prec. temp. sensor (0° to +100°C) 1.79	1.35	1.25						
278361CH	ADI	TMP36FS	SOIC-8	Low voltage temperature sensor85	.77	.69						
278395CH	ADI	TMP36GS	SOIC-8	Low voltage temperature sensor63	.54	.49						

Tempe	erat	ure Sei	<b>1sors</b>	Pac	ckage (see pg 42)		
Part No.	Mfr.	Cross Ref.	Pkg.	Description	10	100	
278387CH	ADI	TMP36GT9	TO-92	Low voltage temperature sensor \$1.09	\$.92	\$.83	
302164CH	NSC	LM50BIM3	SOT-23	Single supply C temp. sensor 1.45	1.10	.82	
302172CH	NSC	LM50CIM3	SOT-23	Single supply C temp. sensor99	.74	.54	
302148CH	NSC	LM56BIM	SOIC-8	Dual output low-power thermo, dig-out 2.29	1.71	1.37	
302130CH	NSC	LM56BIMM	MSOP-8	Dual output low-power thermo, dig-out 3.39	3.21	3.05	
302156CH	+	LM61BIM3	SOT-23	2.7V analog temperature sensor 1.29	1.12	1.05	
302092CH	+	LM61CIZ	TO-92	2.7V analog temperature sensor95	.80	.75	
311870CH	NSC	LM70CIMM-3	MSOP-8	SPI/Microwire 10-bit plus design sensor 1.69	1.27	.95	
311888CH	NSC	LM70CIMM-5	MSOP-8	SPI/Microwire 10-bit plus design sensor 1.69	1.27	.95	
301639CH	NSC	LM74CIBP-3	MICROSMD-	512-bit + sign digital temp. sensor 2.29	1.71	1.44	
301604CH	NSC	LM74CIBP-5	MICROSMD-	512-bit + sign digital temp. sensor 2.29	1.71	1.44	
301621CH	NSC	LM74CIM-3	SOIC-8	12-bit + sign digital temp. sensor 1.89	1.42	1.19	
301583CH	NSC	LM74CIM-5	SOIC-8	12-bit + sign digital temp. sensor 1.89	1.41	1.19	
311853CH	NSC	LM75CIM-3	SOIC-8	Digital temp sensor/thermal watchdog 1.65	1.32	1.17	
311845CH	NSC	LM75CIM-5	SOIC-8	Digital temp sensor/thermal watchdog 1.65	1.32	1.17	
301567CH	NSC	LM77CIM-3	SOIC-8	9-bit + sign digital window comp 2.15	1.61	1.39	
301575CH	NSC	LM77CIMM-3	MSOP-8	9-bit + sign digital window comp 2.65	2.55	2.45	
282028CH	+	LM135H	TO-46	Precision temperature sensor 8.55	7.67	6.91	
120820CH	+	LM335AZ	TO-92	Precision temperature sensor81	.75	.71	
193560CH	+	LM335M	SOIC-8	Precision temperature sensor 1.10	.94	.69	
23755CH	+	LM335Z	TO-92	Volt mode temperature sensor67	.61	.44	
241939CH	+	AD590JH	TO-52/3	Two terminal IC temp. transducer 6.85	6.49	6.19	
313306CH	+	AD594AQ	DIP-14	Mono thermocouple amp w/ junction 10.39	10.22	10.05	
313293CH	+	AD595AQ	DIP-14	Mono thermocouple amp w/ junction 13.55	11.89	10.35	
316970CH	+	TC620CCPA	DIP-8	5V dual trip point temp. sensor 1.75	1.69	1.64	
302551CH	+	DS18S20	SOIC-8	High-precision 1-wire digital thermo 4.49	3.56	3.21	
287371CH	+	AD7814ARM	MSOP-8	10-bit digital temp. sensor 2.09	1.99	1.90	
				·			

(Anic	🤚 Hal	I Sens	ors	Package (see pg 42				
Part No.	Cross Ref.	Pkg.	Description	1	10	100		
319089CH	ATS137M	SIP-3	Sgl out hall effect switch 25mA	\$1.79	\$1.57	\$1.31		
319097CH	AH175P	SIP-3	Sgl out hall effect latch 25mA	1.79	1.57	1.31		
319100CH	AH182PL	SIP-3	SgI out hall effect switch 25mA	72	.65	.504		
319118CH	AH182WI	SOT-23/3	Sal out hall effect switch 25mA	72	65	494		

Digita	Digital Potentiometers Pa					
Part No.	Cross Ref.	Pkg.	Description 1	10	100	
241744CH	MCP41010-I/P	DIP-8	10k $\Omega$ , 256 steps, SPI digital pot \$1.59	\$1.30	\$1.25	
241761CH	MCP41050-I/P	DIP-8	$50k\Omega$ , 256 steps, SPI digital pot 1.85	1.55	1.40	
241787CH	MCP41100-I/P	DIP-8	100kΩ, 256 steps, SPI digital pot\$1.75 1.55	1.47	1.39	
241752CH	MCP42010-I/P	DIP-14	10k $\Omega$ , 256 steps, 2-ch, SPI digital pot 2.39	1.89	1.87	
241779CH	MCP42050-I/P	DIP-14	$50k\Omega$ , 256 steps, 2-ch, SPI digital pot 2.75	2.10	2.02	
241795CH	MCP42100-I/F	DIP-14	100kΩ, 256 steps, 2-ch, SPI digital pot 2.59	2.33	2.10	

* Prepackaged: order in increments of 10, 100 or 1000									
Transistors Package (see pg 44)									
241795CH	MCP42100-I/P DIP	14 100kΩ, 256 steps, 2-ch, SPI digital pot <b>2.59</b>	2.33	2.10					
241779CH	MCP42050-I/P DIP-	14 50k $\Omega$ , 256 steps, 2-ch, SPI digital pot 2.75	2.10	2.02					
241752CH	MCP42010-I/P DIP	14 $10k\Omega$ , 256 steps, 2-ch, SPI digital pot 2.39	1.89	1.87					
241787CH	MCP41100-I/P DIP-	8 100kΩ, 256 steps, SPI digital pot \$1.75 1.55	1.47	1.39					
241/01CH	WICP41050-I/P DIP-			1.40					

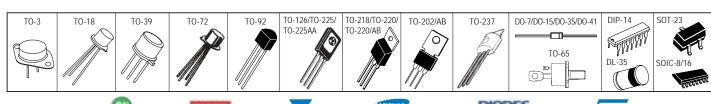
				A Trepuckagea: order in increments of 10, 100 of 10							
Part No.	Product No.	Mfr.	Pkg.	Desc.	$v_{\text{ceo}}$	Min. (h <sub>FE</sub> @ Ic)	1	10	100	1000	
214834CH	MMBTA05	+	SOT-23	NPN	60	<b>–</b>	*	\$.25	\$.20 (	\$.09	
297799CH	MPSA05	+	TO-92	NPN	60	100 @ .01A .	*	.075	.064	.034	
214842CH	MMBTA06	+	SOT-23	NPN	80	100 @ .01A .	*	.10	.06	.04	
26462CH	MPSA06*	+	TO-92	NPN	30	50 @ .01A .	*	.054	.047	.026	
288930CH	MPSH10	+	TO-92	NPN	25	60 @ .004A	*	.10	.059	.043	
214851CH	MMBTA13	+	SOT-23	NPN	30	5k @ .01A .	*	.071	.049	.032	

# We Have More Pots!

**Digital Potentiometers** 

On pages 73-77 you will find Linear, Audio, Cermet and Trimmer Pots for all you needs.





	Of Basicani		FA ROWLE					VISHAY			
<b>Trans</b>	istors								Packag	je (see	above)
					* Prep	ackaged:	order i	n incren			
Part No.	Product No.	Mfr.	Pkg.	Desc.	V <sub>ceo</sub>	Min. (h <sub>FE</sub>	@ lc)	1	10	100	1000
26489CH	MPSA13*	+	TO-92	NPN	30	5k @	.01A .	*	\$.091	\$.042	\$.034
214869CH	MMBTA14	+	SOT-23	NPN	30	10k @	.01A .	*	.04	.032	.024
210593CH	MPSA14	+	TO-92	NPN	30	20k @	.10A .	*	.083	.067	.038
210681CH	MPSA18	+	TO-92	NPN	45	500@	.001A	*	.083	.062	.043
288850CH	MPSA29	+	TO-92	NPN	100	10k @	.1A	*	.10	.059	.044
33021CH	TIP29A	+	TO-220	NPN	60	15 @	1A	44	.42	.39	.32
297781CH		+	TO-220	NPN	100			25	.208	.195	.17
33030CH	TIP30A	+	TO-220	PNP	60			52	.49	.39	.30
179346CH		FSC	TO-220	PNP	100			39	.365	.32	.265
33048CH	TIP31A*	+	TO-220	NPN	60			49	.39	.35	.29
179354CH		FSC	TO-220	NPN	100			33	.29	.25	.205
33064CH	TIP32A*	+	TO-220	PNP	60			36	.335	.285	.185
181841CH		+	TO-220	PNP	100			34	.30	.25	.22
33081CH 179371CH	TIP41A	<b>♦</b> FSC	TO-220	NPN NPN	60 100			58	.49	.445	.42
	MMBTA42	<b>+</b>	TO-220 SOT-23	NPN	300			52	.39	.29	.185
178546CH		+	TO-92	NPN	30			*	.003	.073	.062
33101CH	TIP42A	+	TO-220	PNP	60			49	.42	.35	.29
139580CH		+	TO-220	PNP	100			49	.45	.38	.31
179389CH		FSC	TO-220	PNP	100			54	.49	.44	.25
288614CH		+	TO-220	NPN	250			48	.357	.202	.166
288631CH		+	TO-220	NPN	300			49	.291	.265	.238
214906CH	MMBTA55	+	SOT-23	PNP	60	100 @	.01A .	*	.045	.036	.027
214914CH	MMBTA56	+	SOT-23	PNP	80	100 @	.01A .	*	.085	.073	.055
210606CH	MPSA56	+	TO-92	PNP	80	100 @	.10A .	*	.099	.074	.042
214922CH	MMBTA63	+	SOT-23	PNP	30	5k @	.01A .	*	.062	.05	.03
288921CH	MPSA63	+	TO-92	PNP	30	10k @	.1A	*	.075	.042	.03
214931CH	MMBTA64	+	SOT-23	PNP	30	10k @	.01A .	*	.047	.04	.03
120221CH	BPW77NA	+	TO-18	NPN	70	_		1.59	1.55	1.49	1.39
178554CH	MPSA92	+	TO-92	PNP	300	25 @	.003A	*	.11	.075	.049
	MMBTA92	+	SOT-23	PNP	300			*	.06	.059	.044
214033CH		+	TO-92	PNP	200			*	.08	.06	.038
277413CH		+	TO-92	NPN	45	100 @			.045	.032	.027
288420CH		+	TO-220	NPN	60			52	.43	.27	.22
297772CH		+	TO-220	NPN	80			60	.54	.46	.41
	TIP102*	<b>+</b>	TO-220	NPN	100			57	.49	.41	.245
179240CH		FSC ◆	TO-220	NPN PNP	100			37	.33	.31	.295
288462CH 32985CH	TIP105	+	TO-220 TO-220	PNP	60 80			41	.398	.319 .69	.264 .55
179258CH		FSC	TO-220	PNP	100			52	.75 .46	.38	.305
288471CH		<b>+</b>	TO-220	NPN	60			48	.457	.37	.23
288500CH		+	TO-220		80			50	.45	.43	.365
288518CH		+	TO-220	NPN	100			51	.44	.38	.23
288526CH		+	TO-220	PNP	60			48	.37	.20	.17
288542CH		+	TO-220	PNP	100			50	.375	.295	.245
32993CH	TIP120*	+	TO-220	NPN	60			49	.45	.39	.27
179291CH		FSC	TO-220	NPN	60	1k @	3A	59	.51	.42	.257
288585CH	TIP121	+	TO-220	NPN	80	1k @	.5A	49	.375	.31	.27
120416CH	TIP122	+	TO-220	NPN	100	1k @	3A	42	.37	.35	.285
179303CH	TIP122	FSC	TO-220	NPN	100	1k @	3A	55	.42	.32	.195
33013CH	TIP125	+	TO-220	PNP	60	1k @	3A	49	.45	.29	.26
288606CH	TIP126	+	TO-220	PNP	80	1k @	.5A	49	.375	.285	.17

<sup>288606</sup>CH TIP126 

◆ TO-220 PNP 80

◆ Jameco Value Offering FSC = Fairchild Semiconductor

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Iran	teiet	orc	(Continued)

Part No.	Irans	istors (C	onti	nued)						Packag	je (see	above)
179320CH   17P127						* Prep	ackaged:	order in in	cren	nents of	10, 100	or 1000
277886CH   MJET72	Part No.	Product No.	Mfr.	Pkg.	Desc.	$v_{ceo}$	Min. (h <sub>FE</sub>	@ lc)	1	10	100	1000
277341CH   PN200	179320CH	TIP127	FSC	TO-220	PNP	100	1k @	3A \$	.48	\$.42	\$.29	\$.25
254772CH   BD237	277886CH	MJE172	+	TO-225	PNP	80	30 @	.50A	.32	.30	.29	.21
1.00   1.00	277341CH	PN200	+	TO-92	PNP	45	100 @	.15A	. *	.09	.06	.045
11529CH   MJE340	254772CH	BD237	+	TO-126	NPN	80	40 @	.15A	41	.40	.38	.28
1537CH   MLESSO	254810CH	BC337	+	TO-92	NPN	45	100 @	.10A	. *	.174	.114	.058
255994CH   BU406	211529CH	MJE340	+	TO-225	NPN	300	30 @	.05A	34	.30	.26	.22
272031CH   BU407	211537CH	MJE350	+	TO-225	PNP	300	30 @	.05A	41	.37	.33	.29
256073CH   BD438	255994CH	BU406	+	TO-220	NPN	200	_	1	.17	1.02	.89	.83
254801CH BC547B	272031CH	BU407	+	TO-220	NPN	150	_		.91	.81	.77	.61
254799CH BC547C	256073CH	BD438	+	TO-225	PNP	45	30 @	.01A	.39	.36	.34	.27
254781CH BC548B	254801CH	BC547B	+	TO-92	NPN	45	330 @	.002A	. *	.075	.067	.051
309825CH   B0681	254799CH	BC547C	+	TO-92	NPN	45	600 @	.002A	. *	.08	.075	.05
256065CH   B0682	254781CH	BC548B	+	TO-92	NPN	30	110 @	.002A	. *	.085	.075	.05
211545CH   MJE700	309825CH	BD681	+	TO-225	NPN	100	750 @	2A	49	.481	.285	.212
211553CH MJE800	256065CH	BD682	+	To-225	PNP	100	750 @	1.5A	39	.38	.36	.21
213920CH   MMBT918	211545CH	MJE700	+	TO-225	PNP	60	750 @	1.5A	.50	.45	.35	.25
194327CH   2N2102	211553CH	MJE800	+	TO-225	NPN	60	750 @	1.5A	.28	.26	.23	.195
194327CH   2N2102	213920CH	MMBT918	+	SOT-23	NPN	15	20 @	.003A	. *	.06	.043	
38228CH 2N2219A				TO-39								_
26446CH MPO2222	38228CH	2N2219A	+			40						
26446CH MPO2222		MMBT2222	+		NPN							
28628CH PN2222*			+									
213938CH MMBT2222A			+									
213997CH MMPO2222A   TO-92 NPN 40 100@.15A95 .86 .68 .51 .304 .304 .304 .305 .304 .304 .305 .304 .305 .304 .305 .304 .305 .304 .305 .304 .305 .304 .305 .304 .305 .305 .305 .305 .305 .305 .305 .305		MMBT2222A	+									
210673CH         MPS2222A         ↑         TO-92         NPN         40         40 @ .50A												_
178511CH       PN2222A       ↑       TO-92       NPN       40       100 @ .15A												
38236CH         2N2222A*         +         TO-18         NPN         40         100@.15A												
214658CH MMBT2369												
213946CH         MMBT2369A         ◆         SOT-23         NPN         15         40 @ .01A			+			25						
26526CH         MPS2369         ↑         TO-92         NPN         15         20 @ .10A												=
211334CH         MPS2369A         ↑         TO-92         NPN         15         20 @ .10A												=
194378CH         2N2905A         →         TO-39         PNP         60         100 @ .15A	211334CH		+			15						
94959CH         MMBT2907         +         SOT-23         PNP         40         100@.15A	194378CH	2N2905A	+	TO-39	PNP	60				.40	.35	.315
26454CH         MPO2907         +         DIP-14         PNP         40         100 @ .15A 2.19         1.85         1.35         .99           28644CH         PN2907**         +         TO-92         PNP         40         100 @ .15A *         .125         .09         .045           213954CH         MMBT2907A         +         SOT-23         PNP         60         100 @ .01A *         .054         .043         .032           214009CH         MMP02907A         +         SOIC-16         PNP         60         100 @ .01A *         .048         .04         .036           211342CH         MPS2907A         +         TO-92         PNP         60         100 @ .15A *         .048         .04         .036           38279CH         2N2907A*         +         TO-18         PNP         60         100 @ .15A *         .058         .042         .034           38279CH         2N2907A*         +         TO-18         PNP         60         100 @ .15A *         .058         .042         .034           211377CH         TIP2955         +         TO-218         PNP         60         20 @ 4A	94959CH	MMBT2907	+	SOT-23	PNP	40	100 @	.15A	.22	.068	.041	
213954CH         MMBT2907A         ◆         SOT-23         PNP         60         100 @ .01A	26454CH	MPQ2907	+	DIP-14	PNP	40						
213954CH         MMBT2907A         ◆         SOT-23         PNP         60         100 @ .01A	28644CH	PN2907**	+	TO-92	PNP	40	100 @	.15A	. *	.125	.09	.045
214009CH         MMPO2907A         +         SOIC-16         PNP         60         100 @ .01A 1.19         .89         .71         .50           211342CH         MPS2907A         +         TO-92         PNP         60         100 @ .15A *         .048         .04         .036           178520CH         PN2907A         +         TO-92         PNP         60         100 @ .15A *         .058         .042         .034           38279CH         2N2907A*         +         TO-18         PNP         60         100 @ .15A *         .058         .042         .034           211377CH         TIP2955         +         TO-218         PNP         60         5 @ .001A05         .94         .90         .72           211502CH         MJ2955         +         TO-3         PNP         60         20 @ 4A69         .62         .56         .51           25831CH         MJE2955T         +         TO-220         PNP         60         20 @ 4A51         .44         .39         .37           38295CH         2N3053*         +         TO-39         NPN         40         25 @ .015A47         .43         .40         .37 </th <th>213954CH</th> <th>MMBT2907A</th> <th>+</th> <th>SOT-23</th> <th>PNP</th> <th>60</th> <th>100 @</th> <th>.01A</th> <th>. *</th> <th>.054</th> <th>.043</th> <th>.032</th>	213954CH	MMBT2907A	+	SOT-23	PNP	60	100 @	.01A	. *	.054	.043	.032
211342CH         MPS2907A         +         TO-92         PNP         60         100 @ .15A	214009CH	MMPQ2907A	+	SOIC-16	PNP	60	100 @	.01A <b>1</b>	.19	.89	.71	$\sim$
178520CH         PN2907A         +         TO-92         PNP         60         100 @ .15A	211342CH	MPS2907A	+	TO-92	PNP	60				.048	.04	
38279CH         2N2907A*         +         TO-18         PNP         60         100 @ .15A36         .34         .31         .25           211377CH         TIP2955         +         TO-218         PNP         60         5 @ .001A	178520CH	PN2907A	+	TO-92	PNP	60	100 @	.15A	. *	.058	.042	
211377CH         TIP2955         +         TO-218         PNP         60         5 @ .001A 1.05         .94         .90         72           211502CH         MJ2955         +         TO-3         PNP         60         20 @ 4A			+		PNP	60					.31	
211502CH         MJ2955         +         TO-3         PNP         60         20 @ 4A	211377CH	TIP2955	+	TO-218	PNP	60				.94	.90	(.72)
25831CH         MJE2955T         +         TO-220         PNP         60         20 @ 4A51         .44         .39         .37           38295CH         2N3053*         +         TO-39         NPN         40         25 @ .15A47         .43         .40         .37           211385CH         TIP3055         +         TO-218         NPN         60         5 @ .001A							20 @	4A	69			$\sim$
38295CH         2N3053*         +         TO-39         NPN         40         25 @ .15A47         .43         .40         .37           211385CH         TIP3055         +         TO-218         NPN         60         5 @ .001A95         .85         .72         .63           38308CH         2N3055*         +         TO-3         NPN         60         15 @ 10A95         .85         .72         .63           211406CH         2N3055A         +         TO-3         NPN         60         20 @ 4A												
211385CH         TIP3055         →         TO-218         NPN         60         5 @ .001A 1.05         .90         .81         .74           38308CH         2N3055*         →         TO-3         NPN         60         15 @ 10A95         .85         .72         .63           211406CH         2N3055A         →         TO-3         NPN         60         20 @ 4A							25 @	.15A	47			
38308CH         2N3055*         +         TO-3         NPN         60         15 @ 10A95         .85         .72         .63           211406CH         2N3055A         +         TO-3         NPN         60         20 @ 4A155         1.40         1.07         .92           25857CH         MJE305ST         +         TO-220         NPN         60         20 @ 4A51         .44         .395         .365           194415CH         2N3439         +         TO-39         NPN         350         40 @ .02A56         .48         .43         .40           194458CH         2N3700         +         TO-18         NPN         80         100 @ .15A         .47         .42         .34         .28           209242CH         2N3771         +         TO-3         NPN         40         15 @ 15A         .189         1.75         1.55         1.39												
211406CH       2N3055A       +       TO-3       NPN       60       20 @ 4A51       1.40       1.07       .92         25857CH       MJE3055T       +       TO-220       NPN       60       20 @ 4A51       .44       .395       .365         194415CH       2N3439       +       TO-39       NPN       350       40 @ .02A56       .48       .43       .40         19445BCH       2N3700       +       TO-18       NPN       80       100 @ .15A       .47       .42       .34       .28         209242CH       2N3771       +       TO-3       NPN       40       15 @ 15A       1.89       1.75       1.55       1.39												
25857CH         MJE3055T         ♦         TO-220         NPN         60         20 @ 4A51         .44         .395         .365           194415CH         2N3439         ♦         TO-39         NPN         350         40 @ .02A56         .48         .43         .40           19445BCH         2N3700         ♦         TO-18         NPN         80         100 @ .15A         .47         .42         .34         .28           209242CH         2N3771         ♦         TO-3         NPN         40         15 @ 15A												
194415CH         2N3439         ♦         TO-39         NPN         350         40 @ .02A56         .48         .43         .40           194458CH         2N3700         ♦         TO-18         NPN         80         100 @ .15A         .47         .42         .34         .28           209242CH         2N3771         ♦         TO-3         NPN         40         15 @ 15A 1.89         1.75         1.55         1.39												
194458CH       2N3700       ★       TO-18       NPN       80       100 @ .15A       .47       .42       .34       .28         209242CH       2N3771       ★       TO-3       NPN       40       15 @ 15A        1.89       1.75       1.55       1.39												
<b>209242CH</b> 2N3771												

<sup>\*10</sup> pcs. in Transistor cabinet kit, pg 45

<sup>\*10</sup> pcs. in Transistor cabinet kit, pg 45 \*\*100 pcs. in Transistor cabinet kit, pg 45



#### Transistors (Continued)

Package	(see	above)
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Transi	istors (0	Conti	nued)					Packaç	ge (see	above)
					* Prep	ackaged: orde	r in increr	nents of	10, 100	or 1000
Part No.	Product No.	Mfr.	Pkg.	Desc.	V <sub>ceo</sub>	Min. (h <sub>FE</sub> @ lc)	) 1	10	100	1000
38324CH	2N3772	+	TO-3	NPN	40	15 @ 10A .	\$1.95	\$1.65	\$1.48	\$1.38
140151CH	2N3773	+	TO-3	NPN	140	15 @ 8A	2.45	2.32	2.26	2.07
62279CH	2N3903	+	TO-92	NPN	40	50 @ .01A	*	.09	.05	.043
94967CH	MMBT3904	+	SOT-23	NPN	40	100 @ .01A	*	.042	.034	.023
211351CH	MPS3904	+	TO-92	NPN	40	100 @ .001A	*	.10	.058	.044
38359CH	2N3904**	+	TO-92	NPN	40	100 @ .01A	*	.069	.057	.035
178597CH	2N3904	FSC	TO-92	NPN	40	100 @ .01A	*	.09	.06	.048
62287CH	2N3905	+	TO-92	PNP	40	50 @ .01A	*	.10	.074	.04
94975CH	MMBT3906	+	SOT-23	PNP	40	100 @ .01A	*	.042	.038	.023
214017CH	MMPQ3906	+	SOIC-16	PNP	40	75 @ .01A .	1.65	1.22	1.09	.65
38375CH	2N3906**	+	TO-92	PNP	40	100 @ .01A	*	.05	.04	.03
178618CH	2N3906	FSC	TO-92	PNP	40	100 @ .01A	*	.085	.045	.035
194466CH	2N4033	+	TO-39	PNP	80	100 @ .10A	62	.54	.48	.44
38404CH	2N4123	+	TO-92	NPN	30	25 @ .05A	*	.12	.11	.082
214674CH	MMBT4124	+	SOT-23	NPN	25	60 @ .05A	*	.04	.032	.024
62295CH	2N4124	+	TO-92	NPN	25	60 @ .05A	*	.044	.034	.025
214682CH	MMBT4126	+	SOT-23	PNP	25	60 @ .05A	*	.042	.034	.026
214623CH	2N4126	+	TO-92	PNP	25	60 @ .05A	*	.05	.04	.03
253411CH	2N4400	+	TO-92	NPN	40	50 @ .15A	*	.042	.03	.027
214703CH	MMBT4401	+	SOT-23	NPN	40	80 @ .01A	*	.044	.034	.021
38421CH	2N4401*	+	TO-92	NPN	40	100 @ .15A	*	.08	.06	.05
214720CH	MMBT4403	+	SOT-23	PNP	40	60 @ .001A	*	.045	.042	.032
38447CH	2N4403*	+	TO-92	PNP	40	100 @ .15A	*	.07	.065	.048
211511CH	2N4410	+	TO-92	NPN	80	60 @ .01A	*	.14	.10	.075
277755CH	MJ4502	+	TO-3	PNP	90	25 @ 7.5A .	3.45	3.07	2.76	2.49
211465CH	2N4920	+	TO-225	PNP	80	30 @ .50A .	31	.29	.285	.28
211490CH	2N4923	+	TO-225	NPN	80	30 @ .50A .	45	.365	.30	.27
310666CH	2N5038	+	TO-3	NPN	150	20 @ 12A .	6.35	5.29	4.55	3.89
213962CH	MMBT5087	+	SOT-23	PNP	50	250 @ .01A	*	.042	.036	.027
210631CH	2N5087	+	TO-92	PNP	50	250 @ .10A	*	.07	.032	.02
213971CH	MMBT5088	+	SOT-23	NPN	30	300 @ .01A	*	.12	.10	.035
62316CH	2N5088	+	TO-92	NPN	30	300 @ .10A	*	.05	.049	.041
214746CH	MMBT5089	+	SOT-23	NPN	25	400 @ .01A	*	.11	.08	.042
62324CH	2N5089	+	TO-92	NPN	25	400 @ .10A	*	.07	.048	.035
140373CH	2N5179	+	TO-72	NPN	12	25 @ .003A	65	.55	.49	.45
209251CH	2N5191	+	TO-225	NPN	60	25 @ 1.5A .		.37	.30	(.22)
209269CH	2N5194	+	TO-225	PNP	60	25 @ 1.5A .	\$.30.26	.24	.22	.20
38501CH	2N5195	+	TO-225	PNP	80	20 @ 1.5A .	39	.35	.28	.23
253930CH	2N5400	+	TO-92	PNP	120	40 @ .010A	*	.075	.059	.037
214754CH	MMBT5401	+	SOT-23	PNP	150	40 @ .001A		.05	.04	.024
210649CH	2N5401	+	TO-92	PNP	150	60 @ .01A	*	.066	.05	.037
214762CH	MMBT5550	+	SOT-23	NPN	140	60 @ .01A	*	.057	.045	.026
253569CH		+	TO-92	NPN	140	60 @ .010A		.23	.15	.054
214771CH	MMBT5551	+	SOT-23	NPN	140	80 @ .01A	*	.058	.042	.03
210657CH		+	TO-92	NPN	160	80 @ .01A		.059	.05	.043
209277CH		+	TO-126	NPN	350	30 @ .10A .		.33	.30	.27
253438CH		+	TO-3	PNP	80	4 @ 25A		2.15	1.60	1.47
254764CH		+	TO-3	NPN	80	20 @ 10A .		2.09	1.59	1.28
194571CH		+	TO-220	PNP	100	1k @ 3A		.47	.42	.35
194589CH		+	TO-220	NPN	100	1k @ 3A		.40	.34	.31
194597CH		+	TO-3	PNP	100	750 @ 6A		1.47	1.32	1.19
194600CH		+	TO-3	NPN	100	750 @ 6A .		1.55	1.36	1.12
255011CH		+	TO-220	NPN	70	30 @ 2A		.52	.48	.41
	MMBT6427	+	SOT-23	NPN	40	10k @ .01A	*	.08	.057	.028
♦ Jameco \	lalue Offering	FSC	= Fairchil	d Semi	conduc	tor				

<sup>◆</sup> Jameco Value Offering FSC = Fairchild Semiconductor \*10 pcs. in Transistor cabinet kit, see right \*\*100 pcs. in Transistor cabinet kit, see right

#### Transistors (Continued)

Package (see above)

				*	Prep	ackaged: order in inc	rem	ents of 1	0, 100	or 1000
Part No.	Product No.	Mfr.	Pkg.	Desc.	V <sub>ceo</sub>	Min. (h <sub>FE</sub> @ Ic)	1	10	100	1000
255003CH	2N6427	+	TO-92	NPN	40	10k @ .01A \$.:	33	\$.22	\$.15	\$.035
288817CH	MPS6521	+	TO-92	NPN	25	300 @ 0.002A	*	.137	.114	.075
288833CH	MPS6531	+	TO-92	NPN	40	60 @ 0.01A:	21	.166	.076	.051
194618CH	2N6547	+	TO-3	NPN	400	12 @ 5A 3.	45	2.96	2.90	2.83
194626CH	2N6678	+	TO-3	NPN	400	8 @ 15A <b>6</b> .	79	6.15	5.75	4.49
214025CH	MMPQ6700	+	SOIC-16	NPN/PNP	40	70 @ .01A <b>2</b> .	15	1.80	1.10	.75
140134CH	2N6725	+	TO-237	NPN	50	25k @ .20A	55	.45	.36	.29
277771CH	MJE13005	+	TO-220	NPN	400	8 @ 2A	80	.71	.54	.32
277798CH	MJE15029	+	TO-220	PNP	120	40 @ 2A	81	.75	.69	.64
277851CH	MJE15031	+	TO-220	PNP	150	40 @ 2A	89	.80	.72	.65

### **Transistor Assortment Cabinet Kit**

#### Includes:

→ Jameco Value Offering

20 drawer component cabinet (319599CH),

20 clear plastic drawers (319601CH), 20 clear dividers (319610CH), pg 244 and

30 adhesive labels for drawers to identify parts in kit

10 each: 2N2222A, 2N2907A, 2N3053, 2N3055, 2N4401, 2N4403, 2N5951, 2N7000, MJE3055T, MPF102,

MPSA06, MPSA13, TIP31A, TIP32A, TIP102, TIP120

100 each: 2N3904, 2N3906, PN2222, PN2907

Part No.	Description	Wt. (lbs.)	1	10
82595CH	560 pcs. (20 types) NPN, PNP transistor kit	5.1	\$82.95	\$74.65
130374CH	Refill for 82595CH (560 pcs.)	0.4	. 69.95	62.95

#### **J-FETs**

#### Package (see above)

SAVE \$8

			* Prepackaged: order in increments of 10, 100 or 100							
					BV <sub>GS</sub> @	Loss (mA)				
Part No.	Product No.	Mfr.	Pkg.	Desc.	IGuA	@ V <sub>DS</sub>	1	10	100	1000
26403CH	MPF102*	+	TO-92	N-Ch	25 @ 1	20 @ 15	*	\$.155	\$.11	\$.08
211393CH	J111	+	TO-92	N-Ch	35 @ 1	20 @ 152	20	.176	.167	.158
140450CH	J112	+	TO-92	N-Ch	35 @ 1	5 @ 15	*	.165	.12	.08
140142CH	J176	+	TO-92	P-Ch	30 @ 1	2 @ 25:	33	.29	.21	.17
211414CH	J177	+	TO-92	P-Ch	30 @ 1	20 @ 15:	39	.28	.20	.14
253921CH	2N5458	+	TO-92	N-Ch2	25 @ 0.1	—	29	.23	.18	.16
210622CH	2N3819	+	TO-92	N-Ch	25@1	20 @ 15	*	.085	.059	.055
38527CH	2N5951*	+	TO-92	N-Ch	30 @ 1	13 @ 15	59	.64	.44	.39
◆ Jameco \	/alue Offering	*10	pcs. in T	ransistor	cabinet ki	t, above				

### **N-Channel/P-Channel MOSFETs**

Package (see above) \* Prepackaged: order in increments of 10, 100 or 1000

						Min. On-St.				
Part No.	Product No.	Mfr.	Pkg.	Desc.	BV <sub>DS</sub>	DS Current	1	10	100	1000
256014CH	BSS138	+	SOT-23	N-Ch	50V	0.2A	. *	\$.11	\$.075	\$.055
256031CH	BS170	<b>+</b>	TO-92	N-Ch	60V	<b>—</b>	. *	.10	.07	.06
256057CH	BS250	<b>+</b>	TO-92	P-Ch	45V	—	.37	.34	.30	.20
209234CH	IRF510	+	TO-220	N-Ch	100V	5.6A	.69	.59	.55	.49
209226CH	IRF520	+	TO-220	N-Ch	100V	10.0A	.55	.48	.45	.40
209058CH	IRL520L	+	TO-220	N-Ch	100V	10.0A	.77	.55	.46	.44
210500CH	IRF530	+	TO-220	N-Ch	100V	14.0A	.66	.57	.52	.49
210518CH	IRF540	<b>+</b>	TO-220	N-Ch	100V	27.0A <b>1</b>	.05	.95	.89	.75
210526CH	IRF620	<b>+</b>	TO-220	N-Ch	200V	6.0A	.45	.42	.35	.32
210534CH	IRF630	+	TO-220	N-Ch	200V	9.0A	.75	.65	.58	.43
210542CH	IRF640	+	TO-220	N-Ch	200V	18.0A	.69	.65	.57	.49

#### N-Channel/P-Channel MOSFETs (Con't) Package (see pg 45)

				*	Prepac	kaged: order in incr	ements o	f 10, 100	or 1000
						Min. On-St.			
Part No.	Product No.	Mfr.	Pkg.	Desc.	$BV_{DS}$	DS Current 1	10	100	1000
210551CH	IRF730	+	TO-220	N-Ch	400V	5.5A <b>\$.89</b>	\$.75	\$.67	\$.63
210569CH	IRF740	+	TO-220	N-Ch	400V	10.0A <b>1.25</b>	1.10	.89	.80
210577CH	IRF820	+	TO-220	N-Ch	500V	4.0A <b>65</b>	.59	.53	.44
210585CH	IRF830	+	TO-220	N-Ch	500V	4.5A <b>77</b>	.70	.62	.58
184719CH	IRF840	+	TO-220	N-Ch	500V	8.0A <b>1.49</b>	1.29	.99	.89
279460CH	VN2222LL	+	TO-92	N-Ch	60V	.75A <b>.23</b>	.20	.16	.14
279486CH	VN2410L	+	TO-92	N-Ch	240V	1.0A45	.405	.364	.328
279478CH	VN2406L	+	TO-92	N-Ch	240V	1.0A44	.35	.27	.17
255020CH	SI4410DY	+	SOIC-8	N-Ch	30V	20A <b>.89</b>	.73	.52	.50
255038CH	SI4420DY	+	SOIC-8	N-Ch	30V	30A <b>1.79</b>	1.75	1.69	1.29
255046CH	SI4435DY	+	SOIC-8	P-Ch	-30V	-40A <b>85</b>	.71	.52	.42
255054CH	SI4463DY	+	SOIC-8	P-Ch	-20V	-30A <b>1.65</b>	1.55	1.49	1.17
255062CH	SI4467DY	+	SOIC-8	P-Ch	-12V	-20A <b>1.59</b>	1.45	1.24	1.02
255071CH	SI4884DY	+	SOIC-8	N-Ch	30V	40A <b>.59</b>	.57	.55	.53
255089CH	SI4963DY	+	SOIC-8	Dual P-Ch	-20V	-20A <b>1.45</b>	1.32	1.19	1.09
253948CH	2N5457	+	TO-92	N-Ch	-25V	—20	.18	.126	.102
253913CH	2N5460	+	TO-92	P-Ch	40V	—34	.28	.22	.19
253905CH	2N5461	+	TO-92	P-Ch	40V	—26	.19	.16	.13
253892CH	2N5462	+	TO-92	P-Ch	40V	— *	.089	.081	.073
253884CH	2N5484	+	TO-92	N-Ch	-25V	*	.13	.09	.052
253585CH	2N5485	+	TO-92	N-Ch	-25V	—23	.20	.18	.13
253577CH	2N5486	+	TO-92	N-Ch	-25V	*	.18	.15	.11
253542CH	2N5639	+	TO-92	N-Ch	30V	0.05A <b>.20</b>	.175	.125	.065
178669CH	2N7000*	FSC	TO-92	N-Ch	60V	0.2A <b>.23</b>	.19	.13	.11
119423CH	2N7000	+	TO-92	N-Ch	60V	0.3A *	.11	.10	.09
140169CH	2N7002	+	SOT-23	N-Ch	60V	0.5A *	.08	.06	.033

Diodes	Package (see pg 45

◆ Jameco Value Offering FSC = Fairchild SemicondOuctor \*10 pcs. in Transistor cabinet kit, pg 45

				* Prepackaged: order in incre	ements of	10, 100	or 1000
Part No.	Product No.	Mfr.	Pkg.	Description 1	10	100	1000
140185CH	BAS16	+	SOT-23	70PRV, 1A (Switching) *	\$.09	\$.065	\$.027
254852CH	BAT54	+	SOT-23	30PRV, 0.6A (Schottky) *	.16	.125	.09
254844CH	BAT54A	+	SOT-23	30PRV, 0.6A (Schottky) *	.08	.05	.043
254836CH	BAT54C	+	SOT-23	30PRV, 0.6A (Schottky) *	.08	.05	.043
254828CH	BAT54S	+	SOT-23	30PRV, 0.6A (Schottky)21	.19	.16	.11
140177CH	BAW56	+	SOT-23	70PRV, 0.25A (Switching) *	.058	.034	.021
140206CH	BAV70	+	SOT-23	70PRV, 0.25A (Switching) *	.06	.044	.026
140193CH	BAV99	+	SOT-23	70PRV, 1A (Switching) *	.06	.05	.038
35941CH	1N270*	<b>+</b>	DO-7	80PRV (Germanium)	.86	.74	.61
313402CH	MMBD914	+	SOT-23	100 V <sub>RRM</sub> , 0.20A (Switching) *	.057	.055	.031
179207CH	1N914	VSH	DO-35	100PRV (Switching) *	.05	.025	.014
36311CH	1N914**	+	DO-35	75PRV,.01A (Switching) *	.022	.018	.014
312101CH	MBR1100	+	DO-41	100PRV, 1.0A (Schottky)26	.144	.101	.097
35967CH	1N3600*	+	DO-35	50PRV,.20A (Switching) *	.045	.029	.019
179215CH	1N4148	VSH	DO-35	100PRV (Switching) *	.04	.03	.025
36038CH	1N4148**	+	DO-35	75PRV,.01A (Switching) *	.036	.027	.023
151247CH	1N4148T	<b>+</b>	DO-35	75PRV,.01A (Switching) #	#	#	.009
94908CH	LL4148	<b>+</b>	DL-35	75PRV @ 50μA, 10mA†	t	.032	.014
313411CH	MMBD4148	+	SOT-23	100 V <sub>RRM</sub> , 0.20A (Gen. Purp.)*	.057	.055	.031
◆ Jameco \	/alue Offering	VS	H = Vishay	y † Prepackaged: order in	increme	nts of 100	)

\*10 pcs. in Diode/rectifier cabinet kit, pg 47 \*\*100 pcs. in Diode/rectifier cabinet kit, pg 47

Zener	Zener Diodes Package (see pg 45)											
Prepackaged: order in increments of 10, 100, 500 or 10												
Part No.	Product No.	Mfr.	Pkg.	Vznom	Pwr Dissipation	10	100	500	1000			
36290CH	1N751A*	+	DO-35	5.1V	0.5W	\$.06	\$.052	\$.045	\$.022			
288665CH	MMSZ4697	+	SOD-123	10V	0.5W	108	.059	.05	.045			
178765CH	1N4730A	+	DO-41	3.9V	1W	069	.055	.045	.029			
178773CH	1N4732A	VSH	DO-41	4.7V	1W	07	.055	.045	.035			
178781CH	1N4733A	VSH	DO-41	5.1V	1W	09	.06	.05	.04			
36097CH	1N4733A*	+	DO-41	5.1V	1W	8	.065	.042	.026			

# Taped-ammo style: order in increments of 1000

\*10 pcs. in Diode/rectifier cabinet kit, pg 47

Zener Diodes continued on next page.

VSH = Vishay

#### JAMECO ValuePro **Heat Sinks**

Our TO-3 & TO-220 heat sinks are made from black anodized aluminum (except for P/N 107297CH which is light weight aluminum). They can be mounted horizontally or vertically depending on your applications. P/N 42622CH and 228005CH can be mounted vertically with solderable mounting tabs.



16512CH	16512CH		15154	16CH	42622	2CH/228005CH
1		1				

40504CH	H 158051CH 70914CH 70658CH		129242CH		107297	/CH	
Part No.	Cross Ref. No.	Туре	Size (L"xW"xH")	1	10	100	1000
326668CH	577500B00000	TO-126	_	\$.33	\$.295	\$.26	\$.25
326633CH	577304B00000	TO-202	0.52x0.38x0.75	24	.23	.22	.207
326684CH	566010B03400	TO-218	1.00x0.51x1.22	99	.89	.76	.65
326730CH	513201B02500	TO-218	_	71	.68	.66	.56
326756CH	529801B02500	TO-218	1.64x0.98x1.51	1.02	.98	.83	.71
326772CH	530101B00150	TO-218	1.75x0.49x1.75	1.11	1.09	.94	.79
320320CH	BK-ALU-0034-001	TO-220	1.80x1.50x0.40	30	.285	.279	.227
326596CH	507302B00000	TO-220	0.75x0.38x0.74	25	.23	.20	.18
326609CH	577002B00000	TO-220	0.51x0.25x0.75	30	.23	.215	.20
326617CH	577102B00000	TO-220	0.52x0.37x0.75	25	.23	.215	.20
326625CH	577202B00000	TO-220	0.51x0.49x0.75	27	.23	.215	.20
326641CH	577002B04000	TO-220	0.53x0.50x0.76	30	.277	.232	.20
326650CH	577102B04000	TO-220	0.52x0.38x0.75	27	.261	.224	.20
326676CH	593002B03400	TO-220	_	52	.482	.416	.35
326692CH	531002B05200	TO-220	1.38x0.50x1.00	84	.75	.65	.495
326705CH	531102B02500	TO-220	1.37x0.49x1.50	67	.66	.57	.485
326713CH	531102B02500	TO-220	1.38x0.50x1.51	86	.80	.68	.575
326721CH	531202B00000	TO-220	1.38x0.50x2.00		.72	.70	.60
326748CH	531202B02500	TO-220	1.37x0.49x2.00	89	.86	.74	.62
326764CH	531302B02500	TO-220	1.38x0.50x2.50	92	.90	.77	.65

	Other Manufacturers — Limited Great Deals										
Part No.	Cross Ref. No.	Туре	Size (L"xW"xH")	1	10	100	1000				
16512CH	DUDE4	TO-3	4.80x1.50x1.30	. \$2.95	\$2.75	\$2.49	\$2.25				
151546CH	635-125B2	TO-3	1.90x1.40x1.30	99	.89	.67	.60				
189835CH	635-5B2	TO-3	1.9x1.4x0.5	95	.86	.68	.51				
70914CH	THM6106	TO-220	1.20x1.00x0.50	35	.30	.28	.26				
129242CH	THM6106	TO-220	1.20x1.00x0.50	49	.45	.39	.35				
42622CH	563002B00000	TO-220	1.2x1.0x0.5	35	.30	.28	.26				
228005CH	BK-T220	TO-220	1.2x1.0x0.5	35	.30	.28	.26				
40504CH	291-H-36AB	TO-220	0.9x1.0x0.4	89	.80	.72	.60				
158051CH	577102B00000	TO-220	.75x.52x.38	39	.35	.29	.25				
70658CH	THM6073	TO-220	0.8x0.7x0.4	29	.269	.26	.25				
107297CH	PSC2-U (cup-style)	TO-220	0.8x1.0x0.4	49	.44	.40	.32				



→ Jameco Value Offering

# Diodes, Transient Voltage Suppressors & Triacs

#### **Zener Diodes (Continued)**

Package (see pg 45)

				Prepad	kaged: order in i				
Part No.	Product No.	Mfr.	Pkg.	V <sub>Znom</sub>	Pwr Dissipation	10	100	500	1000
178790CH	1N4734A	VSH	DO-41	5.6V	1W	\$.045	\$.041	\$.037	\$.034
36118CH	1N4734A	+	DO-41	5.6V	1W	073	.055	.05	.045
178802CH	1N4735A	VSH	DO-41	6.2V	1W	055	.049	.04	.036
36126CH	1N4735A*	+	DO-41	6.2V	1W	07	.045	.041	.035
178811CH	1N4737A	+	DO-41	7.5V	1W	043	.039	.036	.032
178829CH	1N4738A	+	DO-41	8.2V	1W	066	.042	.034	.029
178837CH	1N4739A	+	DO-41	9.1V	1W	063	.042	.035	.032
178845CH	1N4740A	+	DO-41	10V	1W	045	.039	.032	.028
178853CH	1N4742A	VSH	DO-41	12V	1W	063	.042	.039	.037
36169CH	1N4742A*	+	DO-41	12V	1W	07	.055	.045	.032
178861CH	1N4744A	VSH	DO-41	15V	1W	063	.042	.039	.036
36185CH	1N4744A	+	DO-41	15V	1W	07	.055	.045	.032
178888CH	1N4747A	+	DO-41	20V	1W	05	.046	.041	.038
178896CH	1N4748A	+	DO-41	22V	1W	032	.029	.027	.024
178909CH	1N4749A	+	DO-41	24V	1W	042	.039	.035	.032
183450CH	1N4750A	+	DO-41	27V	1W	045	.041	.037	.034
179004CH	1N5225B	+	DO-35	3.0V	0.5W	033	.025	.017	.016
288702CH	MMSZ5226B	+	SOD-123	3.3V	0.5W	107	.067	.064	.045
179021CH	1N5229B	+	DO-35	4.3V	0.5W	027	.024	.022	.02
179039CH	1N5230B	+	DO-35	4.7V	0.5W	026	.024	.022	.02
179047CH	1N5231B	+	DO-35	5.1V	0.5W	04	.035	.03	.027
179055CH	1N5232B	+	DO-35	5.6V	0.5W	026	.023	.021	.019
179063CH	1N5234B	+	DO-35	6.2V	0.5W	04	.035	.029	.025
313390CH	MMBZ5241B	+	SOT-23	11V	0.35W	115	.069	.059	.042
179098CH	1N5242B	+	DO-35	12V	0.5W	029	.027	.025	.024
179135CH	1N5250B	+	DO-35	20V	0.5W	034	.03	.027	.02
288788CH	MMSZ5257	+	SOD-123	33V	0.5W	116	.05	.044	.04
◆ Jameco \	alue Offering	VS	H = Vishay	<b>*</b> 1	0 pcs. in Diode/re	ctifier cab	oinet kit, s	see below	right

#### **Transient Voltage Suppressors**

Package (see pg 45)

							• •	
				* Prepa	ckaged: order in incre	ements of	10, 100	or 1000
Part No.	Product No.	Watts	Pkg.	Min. Brkdwn Volt. (V <sub>BR</sub> )	Stand-Off Voltage 1	10	100	1000
254879CH	SA6.0A	500	DO-15	6.67	6.0 \$.23	\$.22	\$.20	\$.14
256701CH	SA12A	500	DO-15	13.3	12.0 <b>.20</b>	.19	.17	.13
254991CH	SA12CA	500	DO-15	13.3	12.0 <b>.30</b>	.29	.27	.24
254983CH	SA13A	500	DO-15	14.4	13.0 *	.16	.15	.14
254975CH	SA15A	500	DO-15	16.7	15.0 <b>.24</b>	.23	.22	.19
254967CH	SA20A	500	DO-15	22.2	20.0 <b>.20</b>	.19	.18	.13
254916CH	SA24A	500	DO-15	26.7	24.0 <b>.24</b>	.23	.22	.19
254908CH	SA28A	500	DO-15	31.1	28.0 <b>.24</b>	.23	.22	.19
254895CH	SA30A	500	DO-15	33.3	30.0 <b>.31</b>	.30	.25	.18
254887CH	SA30CA	500	DO-15	33.3	30.046	.37	.28	.17
256663CH	P6KE6.8A	600	DO-15	6.45	5.8*	.19	.18	.15
256647CH	P6KE7.5A	600	DO-15	7.13	6.4*	.19	.17	.14
256639CH	P6KE9.1A	600	DO-15	8.65	7.8*	.19	.165	.14
288999CH	P6KE10A	600	DO-15	9.5	8.55	.332	.185	.122
288981CH	P6KE10CA	600	DO-15	9.5	8.55*	.183	.135	.12
289035CH	P6KE12A	600	DO-15	11.4	10.2 <b>.23</b>	.199	.157	.141
289043CH	P6KE12CA	600	DO-15	11.4	10.2*	.183	.134	.119
255943CH	P6KE16A	600	DO-15	15.2	13.6 <b>.21</b>	.20	.195	.13
255935CH	P6KE16CA	600	DO-15	15.2	13.6 <b>.25</b>	.24	.225	.19
255919CH	P6KE18A	600	DO-15	17.1	15.3 <b>.23</b>	.22	.20	.135
255901CH	P6KE18CA	600	DO-15	17.1	15.3 <b>.23</b>	.22	.20	.136
255863CH	P6KE20A	600	DO-15	19.0	17.1*	.26	.25	.24
272102CH	P6KE22A	600	DO-15	20.9	18.8*	.13	.115	.105
255855CH	P6KE24A	600	DO-15	22.8	20.5 <b>.23</b>	.22	.20	.135
255847CH	P6KE24CA	600	DO-15	22.8	20.5*	.17	.15	.12
255821CH	P6KE27A	600	DO-15	25.7	23.1 <b>.26</b>	.25	.24	.17
255812CH	P6KE27CA	600	DO-15	25.7	23.1 <b>.24</b>	.23	.22	.16
255804CH	P6KE30A	600	DO-15	28.5	25.6 <b>.26</b>	.25	.23	.19
255791CH	P6KE30CA	600	DO-15	28.5	25.6 <b>.26</b>	.25	.23	.19
255783CH	P6KE33A	600	DO-15	31.4	28.2 <b>.25</b>	.24	.23	.18
255775CH	P6KE33CA	600	DO-15	31.4	28.2 <b>.25</b>	.24	.23	.16
255767CH	P6KE36A	600	DO-15	34.2	30.8 <b>.23</b>	.22	.20	.136
255759CH	P6KE39A	600	DO-15	37.1	33.3 <b>.26</b>	.24	.23	.19

### Transient Voltage Suppressors (Continued) Package (see pg 45)

\* Prepackaged: order in increments of 10, 100 or 1000

			I./	lin. Brkdwn	Stand-Off			
Part No.	Product No.	Watts		Volt. (V <sub>BR</sub> )	Voltage 1	10	100	1000
255741CH	P6KE39CA	600	DO-15	37.1	33.3*	\$.17	\$.16	\$.15
256698CH	P6KE47A	600	DO-15	44.7	40.2 <b>.20</b>	.19	.18	.13
256680CH	P6KE47CA	600	DO-15	44.7	40.2 *	.17	.155	.13
256671CH	P6KE51A	600	DO-15	48.5	43.6 <b>.24</b>	.23	.185	.16
256655CH	P6KE68A	600	DO-15	64.6	58.1 <b>.25</b>	.24	.23	.21
256621CH	P6KE91A	600	DO-15	86.5	77.8 <b>.26</b>	.25	.23	.18
288956CH	P6KE100A	600	DO-15	95	85.5 *	.175	.135	.12
316849CH	P6KE100CA	600	DO-15	95	85.5	.34	.185	.18
255951CH	P6KE150CA	600	DO-15	143.0	128.0 <b>.36</b>	.33	.28	.17
255927CH	P6KE180A	600	DO-15	171.0	154.0 <b>.26</b>	.23	.15	.135
255871CH	P6KE200A	600	DO-15	190.0	171.0 <b>.38</b>	.35	.33	.27
255839CH	P6KE250CA	600	DO-15	237.0	214.0 <b>.26</b>	.23	.15	.14
313146CH	SMCJ5.0A	1500	DO-214AB	6.4	5 <b>1.04</b>	.82	.468	.332
313120CH	SMCJ5.0CA	1500	DO-214AB	6.4	5 <b>.61</b>	.506	.495	.483
313103CH	SMCJ6.0A	1500	DO-214AB	6.67	6	.56	.55	.54
313218CH	SMCJ10A	1500	DO-214AB	11.1	10 <b>76</b>	.61	.58	.552
313234CH	SMCJ10CA	1500	DO-214AB	11.1	10 <b>.61</b>	.51	.465	.442
313200CH	SMCJ20A	1500	DO-214AB	22.2	20 <b>99</b>	.82	.75	.72
313197CH	SMCJ20CA	1500	DO-214AB	22.2	20 <b>62</b>	.515	.48	.46
313171CH	SMCJ24A	1500	DO-214AB	26.7	24 <b>73</b>	.60	.57	.54
313189CH	SMCJ24CA	1500	DO-214AB	26.7	24 <b>76</b>	.58	.302	.255
313162CH	SMCJ36A	1500	DO-214AB	40	36 <b>45</b>	.365	.302	.255
313154CH	SMCJ36CA	1500	DO-214AB	40	36 1.08	.87	.83	.79
313082CH	SMCJ58CA	1500	DO-214AB	64.4	58 <b>1.09</b>	.87	.83	.79

#### Diac/Triacs/Quadrac

Package (see pg 45)

	* Prepackaged: order in increments of 10 or 100									
Part No.	Product No.	Mfr.	Pkg.	Туре	Rating	1	10	100		
160098CH	HT-32	TEC	DO-35	Diac	27.37 VBO,	2A*	\$.13	\$.12		
31819CH	SC146B	+	TO-220	Triac	200 VDRM,	10A (2N6342) 1.29	1.15	.99		
31827CH	SC146M	+	TO-220	Triac	600 VDRM,	10A (2N6344) 1.99	1.69	1.49		
160178CH	L401E3	TEC	TO-92	Triac	400 VDRM,	1A65	.56	.52		
160194CH	Q401E3	TEC	TO-92	Triac	400 VDRM,	1A <b>59</b>	.52	.47		
220468CH	L4004F31	TEC	TO-220AB	Triac	400 VDRM,	4A81	.77	.73		
160186CH	L4004F51	TEC	TO-220AB	Triac		4A	.76	.69		
220450CH	L4004L3	TEC	TO-220AB	Triac	400 VDRM,	4A \$1.25 1.09	.99	.90		
160240CH	Q4004LT	TEC	TO-220AB	Quadrac	400 VDRM,	4A 1.09	.99	.89		
160207CH	Q4008L4	TEC	TO-220AB	Triac	400 VDRM,	8A 1.19	1.06	.97		
220492CH	Q4008R4	TEC	TO-220AB	Triac	400 VDRM,	8A 1.05	.97	.89		
139336CH	Q4015L5	+	TO-220AB	Triac	400 VDRM,	15A <b>1.55</b>	1.36	1.25		
160143CH	Q4025L6	TEC	TO-220AB	Triac	400 VDRM,	25A <b>2.59</b>	2.29	1.91		
160215CH	Q6008L5	TEC	TO-220AB	Triac	600 VDRM,	8A \$1.3 <sup>5</sup> 1.15	1.05	.98		
160231CH	Q6015L5	TEC	TO-220AB	Triac	600 VDRM,	15A <b>1.79</b>	1.63	1.49		
220513CH	Q6025P5	TEC	TO-3	Triac	600 VDRM,	25A <b>7.59</b>	6.75	5.95		
220505CH	Q6025R6	TEC	TO-220AB	Triac	600 VDRM,	25A <b>2.25</b>	2.05	1.85		
220521CH	Q6035P5	TEC	TO-3	Triac	600 VDRM,	35A <b>9.69</b>	8.69	7.89		
140425CH	2N6071A	+	TO-225AA	Triac	200 VDRM,	4A <b>.29</b>	.27	.24		
◆ Jameco V	alue Offering	TEC	C = Teccor							

#### **Diode/Rectifier Assortment Cabinet Kit**

420 pcs. (15 types) Diodes, Zener Diodes, Switching and Silicon Rectifiers SAVE 13%

20 drawer component cabinet (319599CH), 20 clear plastic drawers (319601CH),

20 clear dividers (319610CH), pg 244 and 30 adhesive labels for drawers to identify parts in kit

**10 each:** 1N270, 1N751A, 1N3600, 1N4001, 1N4007, 1N4733A, 1N4735A, 1N4742A, 1N5404, 1N5408, C106B1, KBP04M

100 each: 1N914, 1N4004, 1N4148

Part No. Description Wt. (the )

Part No.	Description	Wt. (lbs.)	1 10
82587CH	420 pcs. (15 types) diode kit	5.0 <b>\$39.9</b> !	\$35.95
130366CH	Refill for 82587CH (420 pcs.)	0.3 <b>25.9</b> !	21.95

#### Silicon Controlled Rectifiers (SCR) Package (see pg 45) \* Prepackaged: order in increments of 10, 100 or 1000 Product No. Mfr. Pkg. Part No. Rating 1 10 **14859CH** C38M TO-65 600 PRV, 35A (2N3899) \$6.89 \$6.19 \$5.59 \$5.05 200 PRV, 4A (2N6239)<sup>†</sup> .... .**67** .**54** .**46** 14736CH C106B1\* TO-202 14752CH C122B ◆ .52 600 PRV, 8A<sup>†</sup> ...... 1.35 1.25 1.05 14761CH C122M TO-220 69 **220484CH** EC103B TEC TO-92 200 VDRM, 0.8A ..... \$.35 .29 .255 .232 .22 220530CH T106B1 .45 .37 160119CH T106D1 .46 .36

TO-92

TO-92

25 PRV, 0.8A ..... \* .19

100 PRV, 0.8A ..... \* .19

60 PRV, 0.8A ..... \*

TO-92 200 PRV, 0.8A .....\* .18

◆ TO-220AB 400 PRV, 25A ......1.05 .99

†Isolated → Jameco Value Offering TEC = Teccor \*10 pcs. in Diode/Rectifier cabinet kit, pg 47

.15

.13

.155

.16

.85

.14

.12

.11

.145

.14

.75

1.04

#### Rectifiers

119802CH 2N5060

211422CH 2N5061

120070CH 2N5062

211431CH 2N5064

140417CH 2N6507

220548CH S40251

**160135CH** S6025L

				₹	Prep	acka	ged: order in in	crements o	of 10, 100	or 1000
	<b>201</b> —		п	_					$\overline{}$	
	<b>S</b>	DO-15/D(	D-27A/DO-41/	_			ш—			
DO-5			ND/D0-204AL				T6L		SOD57	
Part No.	Product No.	Mfr.	Pkg.	Ratii	ng			1 10	100	1000
177754CH	T6A05L	+	T6L	50	PIV,	6A	\$.3	1 \$.28	\$.25	\$.23
177762CH	T6A10L	+	T6L	100	PIV,	6A	6	5 .55	.45	.39
177818CH	T6A100L	<b>*</b>	T6L	1000	PIV,	6A	6	5 .59	.49	.39
301444CH	MBR1060	+	TO-220	60	$V_{RRM}$	,104	۰6	3 .506	.42	.346
35924CH	1N1188	+	DO-5	400	PRV,	35 <i>A</i>	4.2	5 3.89	3.27	2.99
35975CH	1N4001*	+	DO-41	50	PRV,	1A		.035	.025	.015
76961CH	1N4002	+	DO-41	100	PRV,	1A		.039	.025	.018
76970CH	1N4003	+	DO-41	200	PRV,	1A	÷	.035	.025	.015
35991CH	1N4004**	*	DO-41	400	PRV,	1A	÷	.04	.025	.02
76988CH	1N4005	+	DO-41	600	PRV,	1A	÷	.035	.025	.015
76996CH	1N4006	+	DO-41	800	PRV,	1A	÷	.035	.025	.015
36011CH	1N4007*	+	DO-41	1000	PRV,	1A	÷	.038	.029	.02
227846CH	1N5059	+	SOD57	200	$V_{R}$	2A	÷	k .12	.10	.075
227854CH	1N5060	+	SOD57	400	$V_{R}$	2A	÷	€ .08	.07	.055
227862CH	1N5061	+	SOD57	600	$V_{R}$	2A	÷	.135	.125	.095
227871CH	1N5062	+	SOD57	800	$V_{R}$	2A	÷	€ .09	.08	.07
214543CH	1N5399	+	DO-15	1000	PRV,	1.5	A	.05	.035	.02
77075CH	1N5400	+	DO-27A	50	PRV,	ЗА	÷	.10	.095	.07
36249CH	1N5401	+	DO-27A						.065	.051
77083CH	1N5402	*	DO-27A	200	PRV,	3A		.085	.075	.056
36265CH	1N5404*	+	DO-27A	400	PRV,	3A	÷	.10	.09	.069
36273CH	1N5408*	+	DO-27A	1000	PRV,	3A	÷	.15	.11	.08
177949CH	1N5817	+	DO-204AL	20	PIV,	1A	÷	k .11	.09	.069
177957CH	1N5818	+	DO-204AL	30	PIV,	1A	÷	€ .09	.08	.055
177965CH	1N5819	+	DO-204AL	40	PIV,	1A	÷	· .10	.085	.075
177973CH		+	DO-201AD				÷		.16	.14
177981CH	1N5821	+	DO-201AD				÷		.16	.15
177990CH		+	DO-201AD						.17	.15
◆ Jameco V	alue Offerin	<b>g</b> *10	pcs./ **100	o pcs.	in Dioc	de/Re	ectifier cabinet k	t, pg 47		

### Hickman's Analog & RF Circuits

Newnes Publishing The author, one of the leading analog and RF engineers, uses illustrations and examples rather than mathematical theory to present a wealth of ideas and tips based on his experience. Essential reading for anyone designing analog circuits. Topics include RF amplifiers, oscillator design and behavior, waveform analysis, optoelectronics, filters, and op-amps. (299 pages, 1998)



Part No.	Description	Size	Wt. (lbs.)	Price
200150CH	Analog and RF Circuits	7.4" x 9.2"	1.1	\$55.95

#### **Bridge Rectifiers**

		1111				E	F		
DF/DIP	-4/SDIP-4		KBP		W0G		_ v	MOM	
		<b>  •</b>   ;		<b>'e</b> ' ===================================	<u>.</u>	I			
BR8D	)	GBF	C	MB35		TB35	179	-01	3/
Part No.	Product No.	Mfr.	Pkg. <sup>†</sup>	Rating		1	10	100	1000
178001CH	DF005M	+	DF	50 PIV,	1A	\$.35	\$.30	\$.22	\$.15
255960CH	DF005S	+	SDIP-4	50 PIV,	1A	30	.26	.22	.18
103000CH	DF01M	+	DF	100 PIV,	1A	30	.26	.21	.17
103042CH	DF02M	+	DF	200 PIV,	1A	35	.30	.22	.17
102971CH	DF04M	+	DF	400 PIV,	1A	45	.41	.35	.31
103034CH	DF06M	+	DF	600 PIV,	1A	32	.30	.25	.21
103026CH	DF10M	+	DF	1000 PIV,	1A	30	.27	.23	.15
256559CH	DF10S	+	SDIP-4	1000 PIV,	1A	31	.26	.23	.19
256604CH	DF01S	+	SDIP-4	100 PIV,	1.5A	29	.23	.21	.18
256591CH	DF02S	+	SDIP-4	200 PIV,	1.5A	30	.25	.22	.16
256583CH	DF04S	+	SDIP-4	400 PIV,	1.5A	32	.28	.24	.20
256575CH	DF08M	+	DIP-4	800 PIV,	1.5A	35	.30	.25	.18
256567CH	DF08S	+	SDIP-4	800 PIV,	1.5A		.27	.22	.20
145429CH		+	KBP	200 PIV,	1.5A	40	.35	.29	.19
119562CH	KBP04M*	+	KBP	400 PIV,	1.5A		.32	.23	.19
279494CH	W005G	+	W0G	50 PIV,	1.5A	35	.29	.26	.165
103018CH	W02G	+	W0G	200 PIV,	1.5A	38	.32	.28	.19
102980CH	W04G	+	W0G	400 PIV,	1.5A		.27	.18	.17
102998CH	W06G	+	W0G	600 PIV,	1.5A	40	.35	.29	.20
179469CH	W08G	+	W0G	800 PIV,	1.5A	35	.32	.26	.18
279515CH	W10G	+	W0G	1000 PIV,	1.5A	34	.30	.21	.18
178124CH	W005M	+	WOM	50 PIV,	1.5A	38	.27	.25	.16
178132CH	W01M	+	WOM	100 PIV,	1.5A	36	.27	.20	.17
178141CH	W02M	+	WOM	200 PIV,	1.5A	38	.33	.28	.19
178175CH	W80W	+	WOM	800 PIV,	1.5A	35	.29	.257	.16
178183CH	BR805D	+	BR8D	50 PIV,	2A		.49	.39	.35
178204CH	BR82D	+	BR8D	200 PIV,	2A	85	.77	.69	.62
178247CH		+	BR8D	1000 PIV,	2A		.49	.39	.35
253260CH		+	KBP	600 PIV,	2A		.35	.29	.24
253286CH		+	KBP	1000 PIV,	2A		.35	.29	.24
	GBPC25-01	+	GBPC	100 PIV,	25A	2.49	2.05	1.65	1.43
	GBPC25-02	+	GBPC	200 PIV,	25A		2.69	2.25	1.65
178280CH		+	MB35	400 PIV,	25A		2.41	2.23	1.55
178335CH		+	TB35	200 PIV,	25A		1.85	1.69	1.50
25574CH	MDA990-3	+	179-01	200 PIV,	30A		3.45	2.99	1.85
25591CH	MDA990-6	+	179-01	600 PIV,	30A		4.29	3.99	3.59
	GBPC1204	+		00 V <sub>RRM</sub> ,	12A		2.52	1.35	1.15
	GBPC1206	+		00 V <sub>RRM</sub> ,	12A		2.67	1.15	1.09
	GBPC1206W			re600 V <sub>RRM</sub> ,	12A		1.55	1.10	1.04
178431CH		+	MB35	800 PIV,	35A		3.29	2.75	1.85
178503CH		+	TB35	1000 PIV,	35A	2.99	2.49	2.09	1.96
	alue Offering OG/WOM/179-			ode/rectifier cabi GBPC/TB35 – p		etal base;	MB35 –	metal cas	e

#### **Troubleshooting & Repairing Consumer Electronics without a Schematic**

TAB Publishing Learn how to locate, test, and repair defective components in audio amplifiers, car radios, cassette decks,TV chassis, compact disc players, power supplies, AM/FM receivers and VCRs. (475 pages, 1997)
• Size: 7.4" x 9.3"
• Weight: 1.1 lbs.

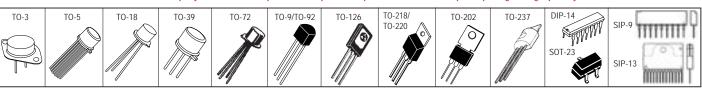
Description 136080CH Troubleshooting & Repairing ......\$24.95

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Analo	Analog Circuits			Package (see above) Analog Circuits (Continued)						Package (see above)			
Part No.	Cross Ref.	Pkg.	Description	1	10	25	Part No.	Cross Ref.	Pkg.	Description	1	10	25
260161CH		DIP-8	Dual operational amplifier			\$2.21	275101CH		SIP-13	Vertical deflection output circuit			\$2.74
260179CH		DIP-8	Low voltage audio amplifier		1.49	1.45		NTE75188	DIP-14	DTL quad line driver, RS-232		1.52	1.48
275442CH	NTE824	DIP-8	Stereo preamp.		2.62	2.49	259397CH	NTE75189	DIP-14	Quad line receiver		1.18	1.14
275451CH	NTE834	DIP-14	Quad comparator	1.89	1.81	1.65		<u> </u>					
275469CH	NTE857M	DIP-8	JFET input op amp	2.95	2.68	2.22	Logic	Circuit	S		Packa	ige (see	above)
260187CH	NTE858M	DIP-8	Dual low noise JFET input op amp	2.65	2.41	2.15	Part No.	Cross Ref.	Pkg.	Description	1	10	25
260195CH	NTE859	DIP-14	Quad low noise JFET input op amp	3.75	3.55	3.39	275119CH	NTE7400	DIP-14	TTL NAND gate	\$1.25	\$1.17	\$1.08
275485CH	NTE891M	DIP-8	Dual audio op amplifier	1.49	1.47	1.44	275223CH	NTE74LS00	DIP-14	TTL NAND gate	73	.72	.70
275522CH	NTE916	DIP-16	NPN transistor array	4.25	3.92	3.59	275127CH	NTE7402	DIP-14	TTL NOR gate	95	.92	.89
275557CH	NTE928M	DIP-8	Dual low power op amplifier		2.05	1.82	275194CH	NTE74HC02	DIP-14	Hi-speed CMOS quad 2-in gate	55	.54	.52
275573CH		DIP-8	JFET input op amplifier		2.55	2.27		NTE74LS02	DIP-14	TTL NOR gate	73	.72	.70
275581CH		DIP-8	Precision op amplifier		9.02	8.56		NTE74LS03	DIP-14	TTL NAND gate		.72	.70
260216CH		TO-5/8	Operational amplifier		5.69	5.55	275135CH		DIP-14	TTL hex inverter		.82	.80
260224CH		DIP-8	Operational amplifier		.88	.85		NTE74LS04	DIP-14	TTL hex inverter		.88	.86
	NTE941SM	DIP-8	General purpose op amplifier		1.09	1.04	275143CH		DIP-14	TTL hex inverter buffer		1.10	.95
275611CH		DIP-8	Dual comparator, low power & offset		2.95	2.67	259354CH		DIP-14	Hex buffer/driver		1.25	1.20
260232CH		DIP-14	Dual operational amplifier		4.58	4.07	259362CH		DIP-14	Quad 2-input AND gate		1.03	.99
275629CH		DIP-14	Quad op amplifier		2.78	2.48		NTE74LS08	DIP-14	TTL AND gate		.78	.76
260241CH		DIP-8	Timing circuit		1.25	1.20		NTE74LS11	DIP-14	TTL AND gate		.70	.68
275696CH	NTE955MC	DIP-8 DIP-8	Op amplifier		1.32 2.33	1.29 2.20		NTE74HC14	DIP-14	Hi-speed CMOS hex schmitt		.64	.62
275717CH		DIP-14	Dual timer		2.29	1.88	275151CH		DIP-32 DIP-32	TTL OR gate		1.26	1.22
260347CH		DIP-14	Quad low power operational amplifier		1.85	1.80	275303CH 275160CH	NTE74LS32		TTL quad 2 input or gate TTL decoder/driver		.83 2.39	.81 2.32
275733CH		DIP-14	Quad op amplifier		2.85	2.54	275100CH		DIP-14	TTL dual "D" flip-flop		.65	.59
260355CH		TO-92	Adjustable precision shunt regulator		.99	.95	259389CH		DIP-14	4-bit bi-stable latch		3.71	3.54
272292CH			Amp, audio power, 8w, 5-p		5.79	5.52		NTE74/5		TTL dual flip/flop		.90	.88
272305CH			TV vertical deflection system		10.49	9.95	275186CH		DIP-14	TTL decade counter		1.41	1.37
272399CH			Dot/bar display driver, 10-step		6.85	6.52	275426CH		DIP-16	Schottky bus driver		4.52	4.14
272428CH		SIP-9	5 LED VU level meter		2.69	2.57		NTE40106B	DIP-14	CMOS hex Schmitt trigger		1.22	1.18
272495CH	NTE1684	SIP-7	TV vertical deflection circuit		4.69	4.58	259371CH		DIP-14	Monostable multivibrator		2.21	1.97
260128CH	NTE1714M	DIP-8	Remote control amplifier/driver	4.99	4.19	4.11		NTE74LS192		TTL up/down counter		2.43	2.37
272524CH	NTE1729	DIP-16	PWM control circuit	4.19	4.10	4.00	275215CH	NTE74HC244	DIP-20	Hi-speed CMOS octal buffer		1.27	1.24
272532CH	NTE1773	SIP-7	Vertical deflection output circuit	2.95	2.89	2.82	275291CH	NTE74LS244	DIP-20	TTL quad driver	3.65	3.55	3.46
272559CH	NTE1782	SIP-7	TV vertical deflection output circuit	4.95	4.83	4.71	275311CH	NTE74LS490	DIP-16	TTL dual decade counter	3.05	2.97	2.90
272567CH	NTE1784	DIP-16	Horizontal processor	4.39	4.28	4.17	Volta	no Dom	·lotoro				
272575CH	NTE1788	SIP-7	TV vertical output	5.79	5.67	5.55	voita	ge Regu	liators	<u> </u>	Packa	ige (see	above)
272604CH		SIP-9	Audio amp. dual,12W/ch		7.53	7.36	Part No.	Cross Ref.	Pkg.	Description	1	10	25
272701CH			7-channel darlington array driver		3.30	3.21	261358CH	NTE309K	TO-3	+5V, 1A	\$8.05	\$7.85	\$7.65
260136CH			7-channel darlington array driver		2.69	2.59	275531CH	NTE923		+2-37V, 150mA		4.74	4.50
260144CH			8-channel darlington array driver		3.15	3.09	275549CH		DIP-14	+2-37V, 150mA		1.38	1.31
272735CH			MOS 16k DRAM		13.57	11.88	260208CH		TO-3	+5V, 3A		11.02	9.86
259291CH		DIP-14	Quad 2-input NOR gate		.65	.62	275565CH		TO-3	+1.2-32V, 5A		13.19	12.53
	NTE4006B		18-stage static shift register		2.77	2.71	275637CH		TO-92	+12V, 100mA		2.03	1.92
	NTE4011B		CMOS quad 2-input nand gate		.85 1.06	.77 1.02	275653CH		TO-220	+1.2-37V, 1.5A		2.01	1.79
273818CH	NTE4013B	DIP-14	Dual-D flip-flop w/ set/reset  CMOS decade counter		1.89	1.71	275661CH		TO-220	-1.2-37V, 1.5A		2.76	2.64
	NTE4017B	DIP-16	CMOS decade counter/divider		2.58	2.52	260259CH		TO-220	+5V, 1A		1.59	1.53
259320CH			Hex buffer/converter (inverting)		1.18	1.14	260267CH		TO-220 TO-220	+6V, 1A		1.59 1.28	1.53
273834CH			CMOS hex buffer/converter		1.55	1.51	260275CH 260283CH		TO-220	+8V, 1A		1.25	1.23 1.19
	NTE4066B	DIP-14	Quad bilateral switch		1.37	1.31	260291CH		TO-220	+12V, 1A		1.59	1.53
273842CH			CMOS hex inverter, HV		.75	.73	260291CH 260304CH		TO-220	-12V, 1A		1.59	1.53
273851CH			CMOS quad 2-input and gate		.67	.65	260304CH		TO-220	+15V, 1A		1.59	1.53
	NTE4093B	DIP-14	Quad 2-input NAND Schmitt trigger		1.02	.99	275670CH		TO-220	-15V, 1A		1.59	1.39
	NTE4538B		CMOS dual multivibrator		1.65	1.61	275670CH		TO-220	+1.2-33V, 3A		10.02	9.52
	NTE4584B		CMOS hex Schmitt trigger		1.25	1.21	260321CH		TO-220	-24V, 1A		4.39	4.15
275039CH		_	Silicon bilateral switch		7.42	7.24	260339CH		TO-220	+24V, 1A		1.59	1.53
275071CH		DIP-40	MPU, NMOS, 8-bit, 1MHz	. 13.69	13.14	11.51	275709CH		TO-92	+5V, 100mA		1.30	1.15
275080CH	NTE6821	DIP-40	PIA, NMOS, 1MHz	7.39	7.06	6.42	272541CH		SIP-5	+130V, 1A		12.01	11.66
260152CH	NTE7039	SIP-13	Vert. deflection output circuit w/ drive circu	it 3.19	3.09	2.99	272591CH	NTE1840	SIP-5	+41.8V, 2A hybrid switching	13.75	12.65	11.54
275098CH	NTE7096	DIP-8	PWM control circuit	2.99	2.87	2.75	272612CH	NTE1910	TO-220	+9V, 1A switching	1.59	1.55	1.51

## NTE



Please call our sales rep if you cannot find a specific NTE replacement product. We also offer special pricing on large quantity orders.

Voltag	ge Regi	Packa	Package (see pg 49)			
Part No.	Cross Ref.	Pkg.	Description	1	10	25
261331CH	NTE1914	TO-3	+12V, 1A	\$3.75	\$3.72	\$3.69
261340CH	NTE1915	TO-3	-12V, 1A	3.89	3.85	3.79
272621CH	NTE1916	TO-3	+15V, 1.5A	4.69	4.49	4.09
272647CH	NTE1936	TO-3P	+12V, 2A	6.05	5.90	5.75

261340CH		10-3	-12V, 1A 3.89	3.85	3.79
272621CH		TO-3	+15V, 1.5A 4.69	4.49	4.09
272647CH	NTE1936	TO-3P	+12V, 2A 6.05	5.90	5.75
Transi	istors		Packa	ge (see	pgs 49)
Part No.	Cross Ref.	Pkg.	Description 1	10	25
272250CH	NTE11	TO-92	NPN silicon, high current amplifier \$1.45	\$1.06	\$.99
273017CH	NTE24	TO-237	NPN silicon, general-purpose amp., switch 1.42	1.17	1.14
273551CH	NTE31	TO-92	NPN silicon, AF driver output 2.35	2.27	2.00
273594CH	NTE32	TO-92	PNP silicon, TV sound/vert., AF drivr output 2.45	2.37	2.07
273640CH	NTE36	TO-3P	NPN AF power amp., high-curr. switch 6.09	5.84	5.59
273658CH	NTE37	TO-3P	PNP AF power amp., high-curr. switch 4.65	4.55	4.45
273931CH	NTE46	TO-92	NPN silicon, gen-pur. amp., preamp., driver 1.49	1.45	1.28
261083CH	NTE47	TO-92	NPN high-gain, low-noise	.59	.57
261104CH	NTE48	TO-92	NPN darlington, high-current95	.92	.89
274301CH	NTE51	TO-220	NPN high-voltage high-speed switch 3.15	2.99	2.71
274440CH	NTE53	TO-3	NPN hi-speed switch 11.39	11.12	10.84
274520CH	NTE54	TO-220	NPN audio power amplifier 2.95	2.82	2.56
261112CH	NTE55	TO-220	PNP complementary trans., hi-freq. driver 3.55	3.39	3.25
274976CH	NTE60	TO-3	NPN silicon complementary transistor $\ \dots \ 9.49$	8.55	7.09
275063CH		TO-3	PNP silicon, gen-purpose hi-pwr audio 9.85	9.57	9.29
261139CH		TO-92	NPN general-purpose amplifier	.79	.76
275477CH		TO-3	NPN color TV horizontal output 10.09	9.56	8.69
275493CH		TO-92	NPN general-purpose high-gain amp 1.09	1.04	.95
275506CH		TO-92	PNP silicon, gen-purpose hi-gain amp 1.09	1.04	.95
275590CH		TO-3	NPN high-voltage switch 4.89	4.78	4.67
275725CH		TO-3	NPN silicon, HV darl. pwr amp., switch 18.39	17.47	16.60
260507CH		TO-18	PNP germanium comp. trans. oscillator 3.15	3.09	3.04
260515CH		TO-18	PNP germanium comp. trans. pwr output driver 3.69	2.49	2.35
272225CH		TO-1	PNP germanium, medium power amp 2.09	2.06	2.03
272233CH		TO-1	NPN darlington power amplifier	1.45	1.39
272241CH		TO-92	NPN silicon, UHF oscillator for tuner 1.25	1.15	1.06
260523CH		TO-92	NPN high-frequency amplifier	1.29	1.24
272284CH		TO-3	PNP hi pwr, low coll. sat. volt pwr output 10.89	10.15	9.65
260531CH		TO-18	NPN general-purpose audio amp., switch75	.73	.71
260540CH 260558CH		TO-18 TO-92	NPN comp. transistor, general-purpose 1.07	1.04	.99 .74
260556CH		TO-39	NPN audio amplifier switch	1.15	1.07
260574CH		TO-237	NPN comp. transistor, general-purpose 1.29	1.15	1.20
260574CH		TO-237	PNP comp. transistor, general-purpose 2.25	2.19	2.09
272313CH		TO-237	PNP silicon, general-purpose amp 1.19	1.16	1.02
260591CH		TO-237	NPN audio pwr amp., medium speed switch 2.75	2.52	2.29
272401CH		TO-220	NPN audio power amplifier 1.79	1.75	1.49
272410CH		TO-220	PNP silicon, audio power amp., switch 2.05	1.96	1.69
260603CH		TO-39	NPN high-voltage video output 2.85	2.65	2.56
272444CH		TO-126	NPN silicon, HV audio power 1.75	1.65	1.44
272452CH	NTE158	T0-1	PNP germanium audio power amp 2.15	2.08	2.01
260611CH		TO-92	PNP audio amplifier switch96	.91	.87
272461CH		TO-18	PNP silicon, general-purpose	.76	.74
272479CH		TO-72	PNP germanium RF-IF amp., FM mixer osc. <b>4.09</b>	3.89	3.55
272516CH	NTE171	TO-202	NPN silicon audio/video amplifier 1.85	1.75	1.61
260620CH	NTE172A	TO-92	NPN darlington pre-amp., med. sp. switch62	.61	.58
260638CH	NTE175	TO-3	NPN comp. trans., hi-volt. med. pwr switch 3.29	3.25	3.19
272583CH	NTE180	TO-3	PNP silicon, high-power audio amp 7.79	7.44	6.78
260646CH	NTE181	TO-3	NPN high-power audio amplifier 6.59	6.29	6.01
260654CH	NTE184	TO-126	NPN comp. trans. audio pwr amp., switch 1.79	1.75	1.69
260662CH	NTE185	TO-126	PNP comp. trans. audio pwr amp., switch 1.89	1.85	1.77
272639CH	NTE192	TO-92SH	NPN audio power output 1.79	1.68	1.53
272655CH	NTE194	TO-92	NPN silicon, audio power amplifier	.56	.49
260671CH	NTE196	TO-220	NPN comp. trans. audio pwr output&med. pwr switch $\   \textbf{2.45}$	2.39	2.13
272663CH	NTE197	TO-220	PNP silicon, audio power output 2.35	2.24	2.04
272671CH	NTE198	TO-220	NPN silicon, hi-volt power transistor ${\bf 2.55}$	2.43	2.20
260689CH	NTE199	TO-92	NPN low noise, high-gain amplifier67	.65	.62
272743CH	NTE219	TO-3	PNP silicon, audio pwr amp., med sp switch . $\ensuremath{\textbf{4.15}}$	3.97	3.61
272786CH	NTE232	TO-92	PNP silicon, darl. amp., preamp	.75	.66

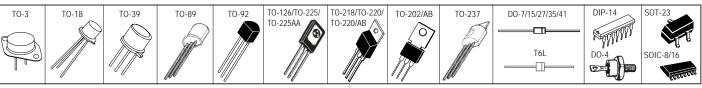
TO-92 PNP low-noise, high-gain amplifier .

Irans	istors (C	ontinue	ed)	Packa	ge (see	pgs 49)
Part No.	Cross Ref.	Pkg.	Description	1	10	25
272866CH	NTE236	B-26	NPN silicon, RF power output	\$9.05	\$7.82	\$7.62
260822CH	NTE238	TO-3	NPN color TV horizontal output	5.55	5.49	5.45
273041CH		TO-3	NPN darlington medium power amp		2.92	2.68
260857CH		TO-3	NPN comp. trans. darlington power amp		4.99	4.80
273076CH		TO-3	PNP darlington power amplifier		5.59	5.13
273084CH		TO-3	NPN darlington power amplifier		7.71	7.53
273121CH		TO-3	NPN darlington power amplifier		8.02	7.85
273130CH		TO-3	PNP darlington power amplifier		7.82	7.64
260865CH 273156CH		TO-126 TO-218	NPN comp. trans. darlington power amp PNP darlington power amplifier		1.49	1.43
260881CH		TO-216	NPN comp. trans. darlington power amp		2.10	2.15
260890CH		TO-220	PNP comp. trans. darlington power amp		2.49	2.40
260902CH		TO-220	NPN comp. trans. darlington power amp		2.39	2.30
260911CH		TO-220	PNP comp. trans. darlington power amp		2.85	2.75
60929CH		TO-220	NPN darlington power amplifier		3.74	3.65
273172CH	NTE270	TO-218	NPN darlington power amplifier		4.41	4.07
273181CH	NTE271	TO-218	PNP darl.power amplifier, switch		5.25	4.67
73199CH	NTE272	TO-202	NPN darlington	13.95	11.85	11.20
273201CH	NTE283	TO-3	NPN silicon, horizontal output, switch	9.79	9.52	9.25
273210CH	NTE284	TO-3	NPN audio power amplifier	9.89	9.64	9.38
260937CH	NTE287	TO-92	NPN comp. trans. hi-volt., general-purpo	se .87	.85	.80
260945CH	NTE288	TO-92	PNP comp. trans. hi-volt., general-purpo	se .80	.74	.65
260953CH	NTE289A	TO-92	NPN comp. transistor audio power amp.	1.22	1.19	1.14
273228CH	NTE290	U-83/TO-92	PNP silicon audio power amp., switch	1.05	1.03	1.00
260961CH		TO-92	PNP comp. transistor audio power amp.	1.38	1.34	1.28
260970CH		TO-220	NPN comp. trans. medium power amp., switch		2.09	2.01
273236CH		TO-220	PNP silicon med-pwr amp., switch		2.09	1.73
273244CH		TO-92	NPN audio power amp. and driver		1.55	1.41
273252CH		TO-92	PNP silicon, audio amp. and driver		1.55	1.41
273261CH		TO-126	NPN silicon, RF pwr output, driver		2.77	2.55
260988CH		TO-39	NPN frequency multiplier driver, VHF/UH		2.75	2.67
260996CH 273615CH		TO-39	NPN high-gain, low-noise amp		3.02	2.95 2.85
273623CH		TO-39 TO-39	PNP silicon, general-purpose		3.13	3.59
261008CH		TO-220	NPN silicon complementary transistor NPN comp. trans. audio power amp., switc		3.92 2.74	2.61
261016CH		TO-220	PNP comp. trans. audio power amp., switc		2.75	2.62
261024CH		TO-126	NPN comp. transistor audio amp. driver		1.64	1.57
261032CH		TO-126	PNP comp. transistor audio amp. driver		1.65	1.61
273666CH		TO-220	NPN silicon, TV veritcal output		2.01	1.66
273674CH	NTE377	TO-220	NPN silicon, pwr amp. driver, output, switch		2.39	2.16
261041CH	NTE378	TO-220	PNP comp. trans. pwr amp. driver output switch		2.55	2.46
261059CH	NTE379	TO-220	NPN power amp. high-voltage switch		7.09	6.99
273682CH	NTE382	TO-92	NPN silicon, AF driver output	2.05	1.97	1.72
273691CH	NTE383	R-245	PNP silicon, audio frequency driver	1.65	1.55	1.41
273703CH	NTE384	TO-66	NPN silicon high-volt. pwr amp., switch	5.59	5.35	4.85
273711CH	NTE385	TO-3	NPN silicon, audio power amp., switch .	8.55	8.37	8.18
273720CH	NTE386	TO-3	NPN silicon, audio power amp., switch .	17.69	17.22	16.74
273738CH	NTE388	TO-3	NPN silicon, gen-purpose hi-pwr audio .	11.65	10.99	9.99
273746CH		TO-218	NPN silicon, general-purpose amp		5.33	4.83
273754CH		TO-218	PNP silicon, general-purpose amp		4.97	4.58
273762CH		TO-72	PNP silicon, wide-band linear amplifier .		2.82	2.63
273771CH		TO-39	NPN silicon, pwr amp. & hi-speed switch		2.37	2.07
261067CH		TO-39	PNP power amp. & high-speed switch		2.51	2.23
273789CH		TO-220	PNP silicon TV vertical output		2.07	1.71
261075CH		TO-92	NPN high-voltage video amp.		2.64	2.52
261091CH		TO-39	NPN RF power driver		5.15	5.09
260700CH 272751CH		TO-3P TO-3P	NPN high-voltage horizontal output NPN silicon, color TV horiz. deflection output		4.59	4.13 6.02
272751CH 272760CH		TO-3P	NPN silicon, hi-volt, hi-current switch		6.16 6.19	5.64
260718CH		TO-3P	NPN high-voltage high-speed switch		13.45	12.82
260726CH		TO-216	NPN high-voltage high-speed switch		4.49	4.30
272778CH		TO-220	NPN silicon, hi-volt, hi-speed pwr switch		6.73	6.56
272794CH		DIP-14	NPN silicon, quad general-purpose		3.00	2.71
260734CH		DIP-14	PNP quad general-purpose		2.57	2.28
260742CH		TO-220	NPN color TV horiz. deflection output		8.15	7.96
272807CH		TO-220	NPN silicon, high-voltage switch		2.15	2.10
272815CH		TO-126	NPN silicon complementary trans		6.02	5.42
			=			

260777CH NTE234

## NTE'

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Trans	istors (C	ontinu	e <b>d)</b> Packa	ige (see	above)
Part No.	Cross Ref.	Pkg.	Description 1	10	25
260751CH	NTE2329	TO-126	PNP comp. trans. audio power output $\$5.75$	\$5.69	\$5.65
260769CH	NTE2331	TO-220	NPN color TV horiz. deflection output w/ damper diode ${\bf 6.85}$	6.79	6.75
272823CH	NTE2333	TO-220	NPN silicon, power transistor 3.05	2.98	2.91
260785CH	NTE2343	TO-220	NPN comp. trans., darlington pwr amp., switch 2.09	1.95	1.92
272831CH	NTE2354	TO-3P	NPN silicon, hi-volt horizontal output 11.69	11.05	10.04
272840CH	NTE2355	TO-92	NPN silicon w/ 10k bias resistor84	.81	.74
260793CH	NTE2344	TO-220	PNP comp. trans., darlington pwr amp., switch $1.65$	1.55	1.51
260806CH	NTE2349	TO-3	NPN darlington trans., hi-curr. gen-purpose $15.65$	15.39	15.25
260814CH	NTE2353	TO-220	NPN TV horiz. deflection output w/ damper diode ${\bf 5.75}$	5.69	5.65
272858CH	NTE2356	TO-92	PNP silicon, w/ 2 10k bias resistors $$ .78	.65	.63
272874CH	NTE2361	TO-92	NPN silicon, high-speed switch62	.60	.55
272882CH	NTE2362	TO-92	PNP silicon, high-speed switch96	.79	.77
272891CH	NTE2363	TO-92	NPN silicon, hi-curr. gen-pur. amp./switch $$ .75	.62	.60
272903CH	NTE2365	TO-126	NPN silicon, hi-volt TV horiz defl. output 14.79	14.44	14.09
273025CH	NTE2406	SOT-23	NPN silicon, gen-purpose amp., SMT 1.45	1.39	1.28
273033CH	NTE2407	SOT-23	PNP silicon, gen-purpose amp., SMT 1.55	1.49	1.37
260831CH	NTE2408	SOT-23	NPN general-purpose amp. (2/pk.) 1.25	1.19	1.15
260849CH	NTE2409	SOT-23	PNP general-purpose amp. (2/pk.) 1.25	1.19	1.15
273050CH	NTE2430	SOT-89	NPN silicon, high-volt amp./switch 1.75	1.71	1.67
273068CH	NTE2431	SOT-89	PNP silicon, high-volt amp./switch 1.59	1.55	1.51
273092CH	NTE2501	TO-126ML	NPN silicon, high-volt for video output 1.75	1.66	1.51
273105CH	NTE2507	TO-220	NPN silicon high-freq. video output 5.95	5.33	4.79
273113CH	NTE2508	TO-126ML	NPN video output for HDTV 1.49	1.45	1.41
273148CH			NPN video output for HDTV 5.15	4.45	4.19
260873CH		TO-220	NPN darlington motor/relay driver 3.29	3.25	3.19
273164CH		TO-220	NPN silicon hi-speed switching reg 4.19	4.10	4.01
275012CH		TO-18	Silicon unijunction	5.51	5.37
275021CH			Silicon programmable unijunction 1.39	1.35	1.18
275047CH		TO-18	Silicon unijunction	5.92	5.78
261121CH		TO-92	Unijunction transistor 4.79	4.75	4.69
272487CH	NTE16004	TO-39	PNP silicon, hi-current, gen-purpose 1.79	1.75	1.70

<b>JFETS</b>				Packag	je (see	above)
Part No.	Cross Ref.	Pkg.	Description	1	10	25
272321CH	NTE133	TO-106	N-ch JFET general-purpose AF amp	. \$.91	\$.89	\$.87
273578CH	NTE312	TO-92	N-ch JFET	. 1.25	1.23	1.20
273631CH	NTE326	TO-92	P-ch JFET general-purpose AF amp	. 1.45	1.39	1.26
273906CH	NTE451	TO-92	N-ch JFET UHF/VHF amplifier	. 1.65	1.61	1.57
260427CH	NTE457	TO-92	N-ch JFET general-purpose	. 1.04	.99	.95
260435CH	NTE458	TO-92	N-ch JFET low-noise, audio-freq. amp	. 1.69	1.65	1.59
273949CH	NTE466	TO-18	N-ch JFET chopper, high-speed switch	. 2.79	2.56	2.33

MOSF	MOSFETS Packa							
Part No.	Cross Ref.	Pkg.	Description 1	10	25			
275055CH	NTE66	TO-220	N-ch enhancement mode hi -speed switch \$6.89	\$6.58	\$5.99			
260443CH	NTE222	TO-39	Dual gate N-channel MOSFET 10.55	9.59	8.95			
273957CH	NTE490	TO-92	N-ch enhancement mode hi-speed switch81	.80	.78			
273981CH	NTE491	TO-92	N-ch enhancement mode hi-speed switch63	.62	.60			
272911CH	NTE2371	TO-220	P-ch enhancement mode 6.89	6.75	6.61			
272920CH	NTE2374	TO-220	N-ch enhancement mode 4.29	4.00	3.70			
272938CH	NTE2377	TO-3P	N-ch enhancement mode hi-speed switch 10.85	10.55	10.24			
272946CH	NTE2379	TO-220	N-ch enhancement mode 4.09	4.00	3.91			
272954CH	NTE2382	TO-220	N-ch enhancement mode hi-speed switch 3.59	3.43	3.11			
272962CH	NTE2383	TO-220	P-ch enhancement mode hi-speed switch 7.89	7.54	6.86			
272971CH	NTE2385	TO-220	N-ch enhancement mode hi-speed switch 5.59	4.77	4.53			
272989CH	NTE2387	TO-220	N-ch enhancement mode hi-speed switch 9.79	9.56	9.32			
272997CH	NTE2388	TO-220	N-ch enhancement mode hi-speed switch 6.09	5.67	5.04			
260451CH	NTE2389	TO-220	N-ch enhancement mode hi-speed switch 5.35	5.15	4.91			
260460CH	NTE2394	TO-126	N-ch enhancement mode hi-speed switch 11.25	11.19	11.09			
260478CH	NTE2395	TO-220	N-ch enhancement mode hi-speed switch 5.59	5.39	5.15			
273009CH	NTE2396	TO-220	N-ch enhancement mode hi-speed switch 5.09	4.59	4.13			

260486CH         NTE2397         TO-220         N-ch enhancement mode hi-speed switch \$5.59         \$5.39         \$5.1           260494CH         NTE2398         TO-220         N-ch enhancement mode hi-speed switch 3.75         3.69         3.6	MOSF	ETs (Co	Packa	Package (see abov			
<b>260494CH</b> NTE2398 TO-220 N-ch enhancement mode hi-speed switch <b>3.75 3.69 3.6</b>	Part No.	Cross Ref.	Pkg.	Description 1	10	25	
•	260486CH	NTE2397	TO-220	N-ch enhancement mode hi-speed switch \$5.59	\$5.39	\$5.15	
273279CH NTF2987 TO-220 N-ch enhancement mode hi-speed switch 6.59 6.44 6.2	260494CH	NTE2398	TO-220	N-ch enhancement mode hi-speed switch 3.75	3.69	3.65	
270277011 THEE707 TO 220 THOM OF MINISTER SPORG STRICK THE GOVERNMENT OF THE THE G	273279CH	NTE2987	TO-220	N-ch enhancement mode hi-speed switch ${\bf 6.59}$	6.44	6.29	

Diode	S		Packa	ige (see	above)
Part No.	Cross Ref.	Pkg.	Description 1	10	25
259418CH	NTE109	DO-7	Germanium fast switching \$1.18	\$1.14	\$1.10
272268CH	NTE110A	DO-7	Germanium general-purpose 1.09	.99	.89
272276CH	NTE110MP	DO-7	Germanium point contact 1.55	1.47	1.39
259426CH	NTE112	DO-35	Silicon small signal schottky 1.48	1.34	1.20
259434CH	NTE177	DO-35	Silicon general-purpose30	.28	.26
259442CH	NTE519	DO-7	Silicon ultra-fast switch34	.31	.29
274431CH	NTE525	DO-41	Silicon high-volt, fast-recovery switch 2.55	2.44	2.20
274634CH	NTE553	DO-35	Schottky barrier diode91	.89	.87
259451CH	NTE570	DO-7	Silicon controlled avalanche diode 1.23	1.19	1.15
259469CH	NTE583	DO-7	Schottky RF switch 1.27	1.22	1.19
274853CH	NTE585	DO-41	Schottky barrier, fast switching92	.91	.78
274861CH	NTE586	DO-27	Schottky barrier, fast switching 1.75	1.67	1.59
274870CH	NTE587	DO-41	Silicon untra-fast switching82	.80	.69
259477CH	NTE588	DO-7	Silicon 200V, 3A fast switch 1.25	1.21	1.16
274917CH	NTE593	SOT-23	Silicon, high-speed switch 1.75	1.68	1.59
274925CH	NTE596	SOT-23	Silicon, dual diode, common anode 1.69	1.65	1.61
259485CH	NTE618	_	Silicon tuning diode for AM radio, varactor $\boldsymbol{1.79}$	1.75	1.69

Zener	Diodes	5			Pac	kage (see	above)
Part No.	Cross Ref.	Pkg.	Voltage	Wattage	Qty.	1 10	25
274028CH	NTE5002A	DO-35	2.7V	1/2W	1/pk\$.7	3 \$.72	\$.70
274036CH	NTE5004A	DO-35	3V	1/2W	1/pk	3 .72	.70
274044CH	NTE5005A	DO-35	3.3V	1/2W	1/pk	3 .72	.70
274052CH	NTE5007A	DO-35	3.9V	1/2W	1/pk5	1 .48	.44
274061CH	NTE5009A	DO-35	4.7V	1/2W	1/pk5	1 .48	.44
259565CH	NTE5010A	DO-35	5.1V	1/2W	1/pk3	9 .36	.33
274079CH	NTE5011A	DO-35	5.6V	1/2W	1/pk5	1 .48	.43
274087CH	NTE5012A	DO-35	6V	1/2W	1/pk	3 .72	.70
274095CH	NTE5013A	DO-35	6.2V	1/2W	1/pk5	1 .48	.44
274108CH	NTE5014A	DO-35	6.8V	1/2W	1/pk5	1 .48	.44
274116CH	NTE5015A	DO-35	7.5V	1/2W	1/pk	3 .72	.70
274124CH	NTE5018A	DO-35	9.1V	1/2W	1/pk	3 .72	.70
274132CH	NTE5019A	DO-35	10V	1/2W	1/pk <b>.4</b>	9 .48	.42
259573CH	NTE5021A	DO-35	12V	1/2W	1/pk4	9 .45	.40
259581CH	NTE5024A	DO-35	15V	1/2W	1/pk4	9 .48	.47
274141CH	NTE5031A	DO-35	24V	1/2W	1/pk	3 .72	.70
274159CH	NTE5035A	DO-35	30V	1/2W	1/pk	3 .72	.70
274167CH	NTE5057A	DO-35	170V	1/2W	1/pk	3 .72	.70
272330CH	NTE134A	DO-35	3.6V	1W	2/pk5	2 .50	.48
259493CH	NTE135A	DO-35	5.1V	1W	2/pk	3 .51	.49
259506CH	NTE136A	DO-35	5.6V	1W	2/pk	4 .41	.39
272348CH	NTE137A	DO-35	6.2V	1W	2/pk5	6 .54	.47
259514CH	NTE138A	DO-35	7.5V	1W	2/pk5	3 .50	.47
272356CH	NTE139A	DO-35	9.1V	1W	2/pk5	2 .49	.47
272364CH	NTE140A	DO-35	10V	1W	2/pk5	2 .50	.47
259522CH	NTE142A	DO-35	12V	1W	2/pk5	6 .55	.53
259531CH	NTE143A	DO-35	13V	1W	2/pk	4 .41	.39
272372CH	NTE144A	DO-35	14V	1W	2/pk	3 .60	.57
259549CH	NTE145A	DO-35	15V	1W	2/pk	4 .41	.39
272381CH	NTE146A	DO-35	27V	1W	2/pk5	1 .49	.44
259557CH	NTE147A	DO-35	33V	1W	2/pk	4 .41	.39
274183CH	NTE5066A	DO-35	3.3V	1W	2/pk <b>2.1</b> !	5 2.12	2.08
274191CH	NTE5069A	DO-35	4.7V	1W	2/pk <b>1.4</b> !	5 1.39	1.26
274204CH	NTE5071A	DO-35	6.8V	1W	2/pk <b>1.4</b>	5 1.39	1.26
274212CH	NTE5072A	DO-35	8.2V	1W	2/pk <b>1.8</b> !	5 1.81	1.77

# NTE Replacement Semiconductors



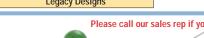


									nent product.									
Zener	Diodes	(Conti	nued)		P	ackage Descript	ion (see	e pg 51)	Recti	fiers (C	ontinue	d)		Pacl	kage Desc	riptic	on (see	pgs 51)
Part No.	Cross Ref.	Pkg.	Voltage	Wattage	Qty.	1	10	25	Part No.	Cross Ref.	Pkg.	Description	PRV	AFC		1	10	25
274221CH	NTE5075A	DO-35	16V	1W	2/pk	\$1.85	\$1.81	\$1.77	260013CH	NTE5870	DO-4	Rectifier	50V	12A	\$2	2.59	\$2.49	\$2.38
259590CH	NTE5077A	DO-35	18V	1W	2/pk	1.42	1.38	1.32	274888CH	NTE5874	DO-4	Rectifier	200V	12A		3.35	2.82	2.50
274239CH	NTE5079A	DO-35	20.0V	1W	2/pk	1.45	1.39	1.26	274896CH	NTE5882	DO-4	Rectifier	600V	12A		4.49	4.27	4.05
274247CH	NTE5080A	DO-35	22.0V	1W	2/pk	2.15	2.12	2.08	274909CH	NTE5890	DO-4	Rectifier	1000V	12A	8	3.69	7.38	6.55
274255CH	NTE5081A	DO-35	24V	1W	2/pk	1.85	1.81	1.77	274941CH	NTE5980	DO-4	Rectifier	50V		3		3.80	3.70
274263CH	NTE5084A	DO-35	30V	1W	2/pk	1.45	1.39	1.26	274950CH	NTE5994	DO-4	Rectifier	600V	40A	8	3.65	8.45	8.25
274271CH	NTE5085A	DO-35	36V	1W	2/pk	1.85	1.81	1.77	274968CH		DO-4	Rectifier	600V		8		8.45	8.25
274280CH	NTE5093A		75V			1.85	1.81	1.77	260030CH		TO-220	Rectifier			lated 3		3.69	3.61
274298CH	NTE5096A		100V			1.85	1.81	1.77	274984CH		DO-8	Rectifier			26		25.93	25.28
274319CH	NTE5100A		150V			1.45	1.38	1.20	260048CH		TO-220	Rectifier	200V		3		3.77	3.59
259602CH	NTE5105A		200V			1.85	1.57	1.17	275004CH		TO-220	Rectifier, dual	200V				4.78	4.67
274327CH	NTE5116A		5.1V			2.05	2.00	1.95	259653CH		BR8D	Bridge rectifier	100V		1		1.06	1.02
274335CH	NTE5127A		12V			1.45	1.39	1.26	259661CH		BR8D BR8D	Bridge rectifier Bridge rectifier	200V 400V				1.69	1.62 1.79
259611CH	NTE5130A	DO-35	15V			1.46	1.39	1.32 1.95	259670CH 272508CH		BR8D	Bridge rectifier	600V				1.86 2.02	1.78
274343CH 274351CH	NTE5131A NTE5133A		16V 18V			2.05	2.00	1.95	259688CH		BR8D	Bridge rectifier					2.79	2.75
274351CH	NTE5133A		24V		•	1.45	1.38	1.20	259696CH		WOM	Bridge rectifier					1.28	1.23
274300CH	NTE5137A		27V			2.05	1.99	1.95	259709CH		WOM	Bridge rectifier			1		1.42	1.39
259629CH	NTE5141A		30V			2.05	2.01	1.97	274458CH		BR8D	Bridge rectifier	200V				2.73	2.66
274386CH	NTE5142A		33V			1.25	1.15	1.01	274466CH		BR8D	Bridge rectifier	600V				2.42	2.22
274394CH	NTE5112A		51V			2.05	1.99	1.95	259717CH		GBPC	Bridge rectifier	100V				3.70	3.53
259637CH			180V			2.05	2.01	1.97	259725CH		GBPC	Bridge rectifier	200V				3.65	3.48
		_	_						259733CH		GBPC	Bridge rectifier	400V		3		3.74	3.59
Iransi	ient Vo	Itage	Supp	ressors	P	ackage Descript	ion (see	e pg 51)	274474CH	NTE5315	GBPC	Bridge rectifier	600V	8A		4.45	4.08	3.63
Part No.	Cross Ref.	Pkg.	Description	n		1	10	25	274482CH	NTE5318	_	Bridge rectifier	200V	4A	2	2.19	2.14	2.08
261278CH	NTE4900	DO-35	5.0V			\$2.19	\$2.15	\$2.09	259741CH	NTE5322	TB35	Bridge rectifier	200V	25A	Ę	5.65	5.38	5.13
273965CH	NTE4902	DO-15	$6.45 V_{BR} \\$	5.80V		3.39	3.32	3.23	274491CH	NTE5324	TB35	Bridge rectifier	400V	25A	5	5.99	5.84	5.69
273973CH	NTE4903	DO-15	$6.12V_{BR}$	5.50V		3.39	3.31	3.22	259750CH	NTE5326	TB35	Bridge rectifier		25A	7	7.59	7.20	6.90
273990CH	NTE4928	DO-15	$19V_{BR}$	17.1V		2.39	2.33	2.27	274503CH		TB35	Bridge rectifier			7		7.69	7.50
274001CH	NTE4951	DO-15	$48.5V_{BR}$			3.39	3.31	3.22	259768CH		BR8D	Bridge rectifier			3		3.46	3.30
274010CH	NTE4993	DO-15	304V <sub>BR</sub>	273V		1.85	1.50	1.46	274511CH		BR8D	Bridge rectifier	600V		5		5.02	4.90
Rectif	fiers				D	! D!			259776CH	N1E5332	DIP-4	Bridge rectifier	600V		1		1.45	1.39
					P	ackage Descript	ion (see	e pg 51)	259784CH	NTE5340	_	Bridge rectifier	200V	40A	8	3.99	8.57	8.17
Part No.		Pka.	Descript	ion PRV					259784CH 259792CH		_	Bridge rectifier Bridge rectifier	200V 600V		8 11		8.57 10.79	8.17 10.24
Part No. 259813CH	Cross Ref.	Pkg. DO-41	<b>Descript</b> Rectifier	ion PRV 600V	AFC	1	10 10 \$.45	25 \$.42	259784CH 259792CH 259805CH	NTE5342		Bridge rectifier Bridge rectifier Bridge rectifier	600V	40A	11	1.39	10.79	10.24
	Cross Ref.				AFC 1A		10	25	259792CH 259805CH	NTE5342 NTE5344	_	Bridge rectifier Bridge rectifier	600V 1000V	40A	11 12	1.39 2.79	10.79 12.29	10.24 11.80
259813CH	Cross Ref. NTE116	DO-41	Rectifier	600V	1A 2.5A	1 \$.49	10 \$.45	25 \$.42	259792CH 259805CH	NTE5342 NTE5344	_	Bridge rectifier Bridge rectifier Rectifie	600V 1000V	40A	11 12	1.39 2.79	10.79 12.29	10.24 11.80
259813CH 259821CH 259830CH 272436CH	Cross Ref. NTE116 NTE125 NTE156 NTE156A	DO-41 DO-41	Rectifier Rectifier Rectifier Rectifier	600V 1000V 1000V 1000V	1A 2.5A 3A	\$.49 50	10 \$.45 .48	25 \$.42 .45 .60	259792CH 259805CH Silico	NTE5342 NTE5344 In Cont Cross Ref.	- t <b>rolled</b>	Bridge rectifier Bridge rectifier Rectifie Description	600V 1000V <b>rs (S</b>	40A 40A	11 12 Package I	1.39 2.79 Descr	10.79 12.29 ip. (see	10.24 11.80 pg 51)
259813CH 259821CH 259830CH 272436CH 259645CH	Cross Ref. NTE116 NTE125 NTE156 NTE156A NTE506	DO-41 DO-41	Rectifier Rectifier Rectifier Rectifier Rectifier	600V 1000V 1000V 1000V 1400V	AFC 1A 2.5A 3A 2A	1 \$.49 	10 \$.45 .48 .63 .67 1.06	25 \$.42 .45 .60 .61 1.02	259792CH 259805CH Silico Part No. 274538CH	NTE5342 NTE5344 n Cont Cross Ref. NTE5400	rolled Pkg. TO-92	Bridge rectifier Bridge rectifier  Rectifie  Description 30 VRM, 0.8A	600V 1000V <b>rs (S</b>	40A 40A	1112 Package [	1.39 2.79 Descr 1 \$.79	10.79 12.29 rip. (see	10.24 11.80 pg 51) 25 \$.60
259813CH 259821CH 259830CH 272436CH 259645CH 274407CH	Cross Ref. NTE116 NTE125 NTE156 NTE156A NTE506 NTE517	DO-41 DO-41 DO-41 — DO-41	Rectifier Rectifier Rectifier Rectifier Rectifier	600V 1000V 1000V 1000V 1400V 15000V	AFC  1A 2.5A 3A 3A 2A 200A	1 \$.49 	10 \$.45 .48 .63 .67 1.06 4.95	25 \$.42 .45 .60 .61 1.02 4.85	259792CH 259805CH Silico Part No. 274538CH 260056CH	NTE5342 NTE5344 In Cont Cross Ref. NTE5400 NTE5401	 trolled Pkg. T0-92 T0-92	Bridge rectifier Bridge rectifier  Rectifie  Description  30 VRM, 0.8A . 60 VRM, 0.8A .	600V 1000V <b>rs (S</b>	40A 40A	11 12 Package I	1.39 2.79 Descr 1 \$.79	10.79 12.29 ip. (see 10 \$.62 .91	10.24 11.80 pg 51) 25 \$.60 .87
259813CH 259821CH 259830CH 272436CH 259645CH 274407CH 259848CH	Cross Ref. NTE116 NTE125 NTE156 NTE156A NTE506 NTE517 NTE541	DO-41 DO-41 DO-41 — DO-41 — DO-35	Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier	600V 1000V 1000V 1000V 1400V 15000V 8400V	AFC  1A 2.5A 3A 2A 2OOA 5OOA	1 \$.49 50 67 72 110 505 8.39	10 \$.45 .48 .63 .67 1.06 4.95 8.29	25 \$.42 .45 .60 .61 1.02 4.85 8.25	259792CH 259805CH Silico Part No. 274538CH 260056CH 260064CH	NTE5342 NTE5344 IN Cont Cross Ref. NTE5400 NTE5401 NTE5402	Pkg. T0-92 T0-92 T0-92	Bridge rectifier Bridge rectifier Rectifie Description 30 VRM, 0.8A . 60 VRM, 0.8A . 100 VRM, 0.8A	600V 1000V rs (S	40A 40A	11 Package I	1.39 2.79 Descr 1 \$.79 .97	10.79 12.29 ip. (see 10 \$.62 .91 .89	10.24 11.80 pg 51) 25 \$.60 .87
259813CH 259821CH 259830CH 272436CH 259645CH 274407CH 259848CH 259856CH	Cross Ref. NTE116 NTE125 NTE156 NTE156A NTE506 NTE517 NTE541 NTE552	DO-41 DO-41 DO-41 — DO-41 — DO-35 DO-41	Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier	600V 1000V 1000V 1000V 1400V 15000V 8400V	AFC  1A 2.5A 3A 2A 200A 50A 1A	1 \$.49 50 67 72 110 505 8.39 93	10 \$.45 .48 .63 .67 1.06 4.95 8.29	25 \$.42 .45 .60 .61 1.02 4.85 8.25 .87	259792CH 259805CH Silico Part No. 274538CH 260056CH 260064CH 260072CH	NTE5342 NTE5344 IN Cont Cross Ref. NTE5400 NTE5401 NTE5402 NTE5404	Pkg. T0-92 T0-92 T0-92 T0-92	Bridge rectifier Bridge rectifier Rectifie Description 30 VRM, 0.8A 60 VRM, 0.8A 100 VRM, 0.8A 200 VRM, 0.8A	600V 1000V rs (S	40A 40A		1.39 2.79 Descr 1 \$.79 .97 .97	10.79 12.29 ip. (see 10 \$.62 .91 .89 1.29	10.24 11.80 e pg 51) 25 \$.60 .87 .78 1.25
259813CH 259821CH 259830CH 272436CH 259645CH 274407CH 259848CH 259856CH 259864CH	Cross Ref. NTE116 NTE125 NTE156 NTE156A NTE506 NTE517 NTE541 NTE552 NTE558	DO-41 DO-41 DO-41 — DO-41 — DO-35 DO-41	Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier	600V 1000V 1000V 1000V 1400V 15000V 8400V 600V	AFC  1A 2.5A 3A 2A 200A 50A 1A	1 \$.49 .50 .67 .72 .1.10 .5.05 .8.39 .93 .1.69	10 \$.45 .48 .63 .67 1.06 4.95 8.29 .90 1.63	25 \$.42 .45 .60 .61 1.02 4.85 8.25 .87 1.57	259792CH 259805CH Silico Part No. 274538CH 260056CH 260064CH 260072CH 274546CH	NTE5342 NTE5344 In Coni Cross Ref. NTE5400 NTE5401 NTE5402 NTE5404 NTE5405	Pkg. T0-92 T0-92 T0-92 T0-92 T0-92 T0-92	Bridge rectifier Bridge rectifier Rectifie Description 30 VRM, 0.8A 60 VRM, 0.8A 100 VRM, 0.8A 200 VRM, 0.8A 400 VRM, 0.8A	600V 1000V rs (S	40A 40A		1.39 2.79 Descr 1 \$.79 .97 .97 1.33 2.19	10.79 12.29 ip. (see 10 \$.62 .91 .89 1.29 2.14	10.24 11.80 e pg 51) 25 \$.60 .87 .78 1.25 2.08
259813CH 259821CH 259830CH 272436CH 259645CH 274407CH 259848CH 259856CH 259864CH 259872CH	Cross Ref. NTE116 NTE125 NTE156 NTE156A NTE506 NTE517 NTE541 NTE552 NTE558 NTE569	DO-41 DO-41 DO-41 — DO-41 — DO-35 DO-41 DO-41	Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier	600V 1000V 1000V 1000V 1400V 15000V 8400V 600V 1500V	AFC  1A 2.5A 3A 2A 2OOA  5OOA 1A 3A 3A	1 \$.49 .50 .67 .72 .1.10 .5.05 .8.39 .93 .1.69	10 \$.45 .48 .63 .67 1.06 4.95 8.29 .90 1.63 1.03	25 \$.42 .45 .60 .61 1.02 4.85 8.25 .87 1.57 .95	259792CH 259805CH Silico Part No. 274538CH 260056CH 260064CH 260072CH 274546CH 274554CH	NTE5342 NTE5344 In Coni Cross Ref. NTE5400 NTE5401 NTE5402 NTE5404 NTE5405 NTE5414	Pkg. T0-92 T0-92 T0-92 T0-92 T0-92 T0-92 T0-92 T0-92 T0-92	Bridge rectifier Bridge rectifier Rectifie Description 30 VRM, 0.8A 60 VRM, 0.8A 100 VRM, 0.8A 200 VRM, 0.8A 400 VRM, 0.8A 200 VRM, 0.8A	600V 1000V rs (S	40A 40A 6CR)	Package I	1.39 2.79 Descr 1 \$.79 .97 .97 1.33 2.19	10.79 12.29 ip. (see 10 \$.62 .91 .89 1.29 2.14 1.61	10.24 11.80 e pg 51) 25 \$.60 .87 .78 1.25 2.08 1.57
259813CH 259821CH 259830CH 272436CH 259645CH 274407CH 259848CH 259856CH 259864CH 259872CH 274781CH	Cross Ref. NTE116 NTE125 NTE156 NTE156A NTE506 NTE517 NTE541 NTE552 NTE558 NTE569 NTE571	D0-41 D0-41 D0-41 — D0-41 — D0-35 D0-41 D0-41	Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier	600V 1000V 1000V 1000V 1400V 15000V 8400V 600V 1500V 600V 1000V	AFC  1A 2.5A 3A 2A 200A  50A 1A 3A 2.9A	1 \$.49 \$.50 \$.67 \$.72 \$.1.10 \$.8.39 \$.93 \$.1.69 \$.1.12 \$.64	10 \$.45 .48 .63 .67 1.06 4.95 8.29 .90 1.63 1.03	25 \$.42 .45 .60 .61 1.02 4.85 8.25 .87 1.57 .95 .58	259792CH 259805CH Silico Part No. 274538CH 260056CH 260064CH 260072CH 274546CH 274554CH 274562CH	NTE5342 NTE5344 IN CONI Cross Ref. NTE5400 NTE5401 NTE5402 NTE5404 NTE5405 NTE5414 NTE5424	Pkg. T0-92 T0-92 T0-92 T0-92 T0-92 T0-92 T0-92 T0-126 T0-220	Bridge rectifier Bridge rectifier Rectifie Description 30 VRM, 0.8A 60 VRM, 0.8A 100 VRM, 0.8A 200 VRM, 0.8A 400 VRM, 0.8A 200 VRM, 4.A 400 VRM, 4.A	600V 1000V rs (S	40A 40A 6CR)	12 Package I	1.39 2.79 Descr 1 \$.79 .97 .97 1.33 2.19 1.65 5.45	10.79 12.29 ip. (see 10 \$.62 .91 .89 1.29 2.14 1.61 6.31	10.24 11.80 e pg 51) 25 \$.60 .87 .78 1.25 2.08 1.57 6.17
259813CH 259821CH 259830CH 272436CH 259645CH 274407CH 259848CH 259856CH 259864CH 259872CH 274781CH 274790CH	Cross Ref. NTE116 NTE125 NTE156 NTE156A NTE506 NTE517 NTE541 NTE552 NTE558 NTE569 NTE571 NTE572	D0-41 D0-41 D0-41 — D0-41 — D0-35 D0-41 D0-41 —	Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier	600V 1000V 1000V 1000V 1400V 15000V 8400V 600V 1500V 600V 1000V	AFC  1A 2.5A 3A 2A 200A  50A 1A 3A 2.9A 6A	1 \$.49 .50 .67 .72 .1.10 .5.05 .8.39 .93 .1.69 .1.12 .64 .1.05	10 \$.45 .48 .63 .67 1.06 4.95 8.29 .90 1.63 1.03 .61	25 \$.42 .45 .60 .61 1.02 4.85 8.25 .87 1.57 .95 .58	259792CH 259805CH Silico Part No. 274538CH 260056CH 260064CH 260072CH 274546CH 274554CH 274562CH 274571CH	NTE5342 NTE5344 IN Cont Cross Ref. NTE5400 NTE5401 NTE5402 NTE5404 NTE5405 NTE5414 NTE5424 NTE5424	Pkg. T0-92 T0-92 T0-92 T0-92 T0-92 T0-92 T0-92 T0-92 T0-92	Bridge rectifier Bridge rectifier Rectifie Description 30 VRM, 0.8A 60 VRM, 0.8A 100 VRM, 0.8A 200 VRM, 0.8A 400 VRM, 0.8A 200 VRM, 4.A 400 VRM, 4.A 400 VRM, 4.7A,	600V 1000V rs (S	40A 40A 6CR)	12 Package I	1.39 2.79 Descr 1 \$.79 .97 .97 1.33 2.19 1.65 6.45 2.59	10.79 12.29 ip. (see 10 \$.62 .91 .89 1.29 2.14 1.61 6.31 2.48	10.24 11.80 e pg 51) 25 \$.60 .87 .78 1.25 2.08 1.57 6.17 2.26
259813CH 259821CH 259830CH 272436CH 259645CH 274407CH 259848CH 259856CH 259864CH 259872CH 274781CH 274790CH 259881CH	Cross Ref. NTE116 NTE125 NTE156 NTE156A NTE506 NTE517 NTE541 NTE552 NTE558 NTE569 NTE571 NTE572	DO-41 DO-41 DO-41 — DO-41 — DO-35 DO-41 DO-41 — DO-41 —	Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier	600V 1000V 1000V 1000V 1400V 15000V 8400V 600V 1500V 600V 1000V 400V	AFC  1A 2.5A 3A 2A 200A  50A 1A 3A 2.9A 6A 1A	1 1 \$.49 \$.50 \$.67 \$.72 \$.1.10 \$.8.39 \$.93 \$.1.69 \$.1.12 \$.64 \$.1.05 \$.58	10 \$.45 .48 .63 .67 1.06 4.95 8.29 .90 1.63 1.03 .61 1.03	25 \$.42 .45 .60 .61 1.02 4.85 8.25 .87 1.57 .95 .58 1.00	259792CH 259805CH Silico Part No. 274538CH 260056CH 260064CH 260072CH 274546CH 274554CH 274562CH 274571CH 274589CH	NTE5342 NTE5344 IN Cont Cross Ref. NTE5400 NTE5401 NTE5402 NTE5404 NTE5405 NTE5414 NTE5424 NTE5424 NTE5426 NTE5437	Pkg. T0-92 T0-92 T0-92 T0-92 T0-92 T0-126 T0-220 T0-220 T0-220	Bridge rectifier Bridge rectifier Rectifie Description 30 VRM, 0.8A . 60 VRM, 0.8A . 100 VRM, 0.8A . 200 VRM, 0.8A . 400 VRM, 0.8A . 400 VRM, 4.A . 400 VRM, 4.7A . 400 VRM, 10A .	600V 1000V rs (S	40A 40A 6CR)	12 Package I	1.39 2.79 Descr 1 \$.79 .97 .97 1.33 2.19 1.65 5.45 2.59	10.79 12.29 ip. (see 10 \$.62 .91 .89 1.29 2.14 1.61 6.31 2.48 2.10	10.24 11.80 e pg 51) 25 \$.60 .87 .78 1.25 2.08 1.57 6.17 2.26 2.04
259813CH 259821CH 259830CH 272436CH 259645CH 274407CH 259848CH 259856CH 259854CH 259872CH 274781CH 274790CH 259881CH 274811CH	Cross Ref. NTE116 NTE125 NTE156 NTE156A NTE506 NTE517 NTE541 NTE552 NTE558 NTE569 NTE571 NTE572 NTE574 NTE575	DO-41 DO-41 DO-41 — DO-41 — DO-35 DO-41 DO-41 — DO-41 DO-41	Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier	600V 1000V 1000V 1000V 1400V 15000V 600V 1500V 600V 1000V 1000V 1000V	AFC  1A 2.5A 3A 2A 200A  50A 1A 3A 2.9A 6A 1A 1A	1 1 \$.49 \$.50 \$.67 \$.50 \$.39 \$.39 \$.1.69 \$.1.12 \$.58 \$.58 \$.67	10 \$.45 .48 .63 .67 1.06 4.95 8.29 .90 1.63 1.03 .61 1.03 .53	25 \$.42 .45 .60 .61 1.02 4.85 8.25 .87 1.57 .95 .58 1.00 .48	259792CH 259805CH Silico Part No. 274538CH 260056CH 260054CH 260072CH 274546CH 274554CH 27455CH 274557CH 274589CH 274597CH	NTE5342 NTE5344 In Cont Cross Ref. NTE5400 NTE5401 NTE5402 NTE5405 NTE5405 NTE5404 NTE5424 NTE5424 NTE5424 NTE5424 NTE5425 NTE5437 NTE5455	Pkg. T0-92 T0-92 T0-92 T0-92 T0-92 T0-126 T0-220 T0-220 T0-220	Bridge rectifier Bridge rectifier Rectifie Description 30 VRM, 0.8A . 60 VRM, 0.8A . 200 VRM, 0.8A 400 VRM, 0.8A 400 VRM, 4.A . 400 VRM, 4.A . 400 VRM, 10A 400 VRM, 10A 400 VRM, 10A 400 VRM, 8A 200 VRM, 4.A .	600V 1000V rs (S	40A 40A 6CR)	11 Package I	1.39 Descr 1 \$.79 .97 .97 1.33 22.19 1.65 6.45 22.59 2.15	10.79 12.29 10. (see 10 \$.62 .91 .89 1.29 2.14 1.61 6.31 2.48 2.10	10.24 11.80 pg 51) \$.60 .87 .78 1.25 2.08 1.57 6.17 2.26 2.04 1.02
259813CH 259821CH 259830CH 272436CH 259645CH 274407CH 259848CH 259856CH 259856CH 259872CH 274781CH 274790CH 259881CH 274811CH 259899CH	Cross Ref. NTE116 NTE125 NTE156 NTE156A NTE506 NTE517 NTE541 NTE552 NTE558 NTE569 NTE571 NTE572 NTE575 NTE575	DO-41 DO-41 DO-41 — DO-41 — DO-35 DO-41 DO-41 — — DO-41 DO-41 DO-41	Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier	600V 1000V 1000V 1000V 1400V 15000V 8400V 1500V 600V 1000V 1000V 400V 400V	AFC  1A 2.5A 3A 2A 200A  50A 1A 3A 2.9A 6A 1A 5A 5A	1\$49506772110505839931.691.12641.0558671.85	10 \$.45 .48 .63 .67 1.06 4.95 8.29 .90 1.63 1.03 .61 1.03 .53 .65	25 \$.42 .45 .60 .61 1.02 4.85 8.25 .87 1.57 .95 .58 1.00 .48 .56 1.73	259792CH 259805CH Silico Part No. 274538CH 260056CH 260064CH 274546CH 274554CH 274554CH 274554CH 27459CH 274597CH 274597CH 260081CH	NTE5342 NTE5344 In Coni Cross Ref. NTE5400 NTE5401 NTE5402 NTE5404 NTE5404 NTE5404 NTE5404 NTE5424 NTE5424 NTE5426 NTE5426 NTE5437 NTE5455 NTE5457	Pkg. T0-92 T0-92 T0-92 T0-92 T0-92 T0-92 T0-126 T0-220 T0-220 T0-220 T0-202	Bridge rectifier Bridge rectifier Rectifie Description 30 VRM, 0.8A . 60 VRM, 0.8A . 200 VRM, 0.8A 400 VRM, 0.8A 400 VRM, 4.A . 400 VRM, 4.A . 400 VRM, 10A 400 VRM, 10A 400 VRM, 10A 400 VRM, 8A 200 VRM, 4.A .	600V 1000V rs (S	40A 40A 6CR)	11 Package I	1.39 Descr 1 \$.79 .97 1.33 2.19 1.65 5.45 2.59 2.15 11.19	10.79 12.29 ip. (see 10 \$.62 .91 .89 1.29 2.14 1.61 6.31 2.48 2.10	10.24 11.80 e pg 51) 25 \$.60 .87 .78 1.25 2.08 1.57 6.17 2.26 2.04
259813CH 259821CH 259830CH 272436CH 259645CH 274407CH 259848CH 259856CH 259854CH 259872CH 274781CH 274790CH 259881CH 274811CH	Cross Ref. NTE116 NTE125 NTE156 NTE156A NTE506 NTE517 NTE541 NTE552 NTE558 NTE569 NTE571 NTE572 NTE574 NTE575	DO-41 DO-41 DO-41 — DO-41 — DO-35 DO-41 DO-41 — DO-41 DO-41	Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier	600V 1000V 1000V 1000V 1400V 15000V 8400V 600V 1500V 600V 1000V 400V 1000V 400V 90V	AFC  1A 2.5A 3A 2A 200A  50A 1A 3A 2.9A 6A 1A 5A 3A 3A	1 1 \$.49 \$.50 \$.67 \$.50 \$.39 \$.39 \$.1.69 \$.1.12 \$.58 \$.58 \$.67	10 \$.45 .48 .63 .67 1.06 4.95 8.29 .90 1.63 1.03 .61 1.03 .53	25 \$.42 .45 .60 .61 1.02 4.85 8.25 .87 1.57 .95 .58 1.00 .48	259792CH 259805CH Silico Part No. 274538CH 260056CH 260054CH 260072CH 274546CH 274554CH 27455CH 274557CH 274589CH 274597CH	NTE5342 NTE5344 In Coni Cross Ref. NTE5400 NTE5401 NTE5402 NTE5404 NTE5405 NTE5404 NTE5424 NTE5424 NTE5424 NTE5425 NTE5457 NTE5457 NTE5458		Bridge rectifier Bridge rectifier Rectifie Description 30 VRM, 0.8A . 60 VRM, 0.8A . 200 VRM, 0.8A . 400 VRM, 0.8A . 400 VRM, 4.A . 400 VRM, 4.A . 400 VRM, 10A . 400 VRM, 8A 200 VRM, 4.A . 400 VRM, 4.A .	600V 1000V rs (S	40A 40A 6CR)	11 Package I	1.39 Descr 1 \$.79 .97 1.33 2.19 1.65 6.45 2.59 2.15 1.19	10.79 12.29 10. (see 10 \$.62 .91 .89 1.29 2.14 1.61 6.31 2.48 2.10 1.12	10.24 11.80 pg 51) \$.60 .87 .78 1.25 2.08 1.57 6.17 2.26 2.04 1.02 1.25
259813CH 259821CH 259830CH 272436CH 259645CH 274407CH 259848CH 259856CH 259864CH 259872CH 2747811CH 274790CH 259899CH 274829CH	Cross Ref. NTE116 NTE125 NTE156 NTE156A NTE506 NTE517 NTE541 NTE552 NTE558 NTE559 NTE571 NTE572 NTE574 NTE575 NTE576 NTE579	DO-41 DO-41 DO-41 — DO-41 — DO-35 DO-41 DO-41 DO-41 DO-41 DO-41 DO-41 DO-41 DO-41	Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier	600V 1000V 1000V 1000V 1400V 15000V 8400V 600V 1500V 600V 1000V 400V 1000V 400V 90V	AFC  1A 2.5A 3A 2A 200A 50A 1A 3A 2.9A 6A 1A 5A 5A 5A	1	10 \$.45 .48 .63 .67 1.06 4.95 8.29 .90 1.63 1.03 .61 1.03 .53 .65 1.79 2.39	25 \$.42 .45 .60 .61 1.02 4.85 8.25 .87 1.57 .95 .58 1.00 .48 .56 1.73 2.19	259792CH 259805CH Silico Part No. 274538CH 260056CH 260064CH 274546CH 274554CH 274554CH 274571CH 274589CH 274597CH 260081CH 260099CH	NTE5342 NTE5344 NTE5340 NTE5400 NTE5401 NTE5402 NTE5404 NTE5405 NTE5414 NTE5426 NTE5414 NTE5426 NTE5437 NTE5455 NTE5457 NTE5458 NTE5458	Pkg. T0-92 T0-92 T0-92 T0-92 T0-92 T0-126 T0-220 T0-220 T0-220 T0-202 T0-202 T0-202	Bridge rectifier Bridge rectifier Rectifie Description 30 VRM, 0.8A . 60 VRM, 0.8A . 200 VRM, 0.8A 400 VRM, 0.8A 400 VRM, 4.A . 400 VRM, 4.A .	600V 1000V rs (S	40A 40A 6CR)	12 Package I	1.39 Descr 1 \$.79 .97 .97 1.33 2.19 1.65 5.45 2.59 2.15 1.19 1.33 2.05 0.05	10.79 12.29 ip. (see 10 \$.62 .91 .89 1.29 2.14 1.61 6.31 2.48 2.10 1.12 1.29 1.99	10.24 11.80 e pg 51) 25 \$.60 .87 .78 1.25 2.08 1.57 6.17 2.26 2.04 1.02 1.25 1.94
259813CH 259821CH 259830CH 272436CH 259645CH 274407CH 259848CH 259856CH 259864CH 2747811CH 2747811CH 274811CH 259899CH 274829CH 259801CH	Cross Ref. NTE116 NTE125 NTE156 NTE156A NTE506 NTE517 NTE541 NTE552 NTE558 NTE558 NTE569 NTE571 NTE572 NTE575 NTE576 NTE575	DO-41 DO-41 DO-41 — DO-41 — DO-35 DO-41 DO-41 — — DO-41 DO-41 DO-41 DO-41 DO-41 DO-41	Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier	600V 1000V 1000V 1000V 1400V 15000V 8400V 600V 1000V 1000V 400V 1000V 400V 90V	AFC 1A 2.5A 3A 2A 200A 50A 1A 1A 3A 2.9A 6A 1A 1A 3A 5A 3A 3A	1 \$.49 \$.50 \$.67 \$.72 \$.1.10 \$.5.05 \$.39 \$.31 \$.69 \$.1.12 \$.64 \$.1.05 \$.58 \$.67 \$.1.85 \$.2.59	10 \$.45 .48 .63 .67 1.06 4.95 8.29 .90 1.63 1.03 .61 1.03 .53 .65 1.79 2.39 3.45	25 \$.42 .45 .60 .61 1.02 4.85 8.25 .87 1.57 .95 .58 1.00 .48 .56 1.73 2.19 3.33	259792CH 259805CH Silico Part No. 274538CH 260056CH 260064CH 274546CH 274554CH 274554CH 274571CH 274597CH 260081CH 260099CH 274600CH	NTE5342 NTE5344 NTE5340 NTE5400 NTE5401 NTE5402 NTE5404 NTE5405 NTE5414 NTE5424 NTE5424 NTE5425 NTE5455 NTE5457 NTE5456 NTE5456 NTE5458	Pkg. T0-92 T0-92 T0-92 T0-92 T0-92 T0-126 T0-220 T0-220 T0-220 T0-202 T0-202 T0-202 T0-202 T0-202	Bridge rectifier Bridge rectifier <b>Rectifie</b> Description  30 VRM, 0.8A . 60 VRM, 0.8A . 100 VRM, 0.8A . 200 VRM, 0.8A . 400 VRM, 4.A . 400 VRM, 4.7A , 400 VRM, 10A . 400 VRM, 4.A . 400 VRM, 4.A . 400 VRM, 4.A . 600 PRV, 4A 800 VRM, 25A	600V 1000V rs (S	40A 40A 6CR)	12 Package I	1.39 22.79 Descr 1 \$.79 .97 .97 1.33 2.19 1.65 5.45 22.59 21.15 1.19 1.33 2.05 2.29	10.79 12.29 ip. (see 10 \$.62 .91 .89 1.29 2.14 1.61 6.31 2.48 2.10 1.12 1.29 1.99	10.24 11.80 e pg 51) 25 \$.60 .87 .78 1.25 2.08 1.57 6.17 2.26 2.04 1.02 1.25 1.94 9.76
259813CH 259821CH 259830CH 272436CH 259645CH 274407CH 259848CH 259856CH 259864CH 259872CH 274781CH 274790CH 259891CH 274829CH 259901CH 259910CH	Cross Ref.  NTE116  NTE125  NTE156  NTE156A  NTE506  NTE517  NTE541  NTE552  NTE558  NTE569  NTE571  NTE572  NTE575  NTE575  NTE575  NTE576  NTE577  NTE577  NTE580	DO-41 DO-41 DO-41 — DO-41 — DO-35 DO-41 DO-41 — DO-41 DO-41 DO-41 DO-41 DO-41 DO-41 SOD57 TO-220	Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier Rectifier	600V 1000V 1000V 1000V 1400V 15000V 8400V 600V 1000V 400V 1000V 400V 90V 1000V 600V	AFC 1A 2.5A 3A 2A 2 200A 50A 1A 1A 3A 3A 3A 5A 3A 3A 3A 3A 3A 3A	1	10 \$.45 .48 .63 .67 1.06 4.95 8.29 .90 1.63 1.03 .61 1.03 .53 .65 1.79 2.39 3.45 2.59	25 \$.42 .45 .60 .61 1.02 4.85 8.25 .87 1.57 .95 .58 1.00 .48 .56 1.73 2.19 3.33 2.47	259792CH 259805CH Silico Part No. 274538CH 260056CH 260064CH 274546CH 274554CH 274554CH 274571CH 274597CH 260081CH 260099CH 274618CH	NTE5342 NTE5344 NTE5340 NTE5400 NTE5401 NTE5402 NTE5404 NTE5405 NTE5414 NTE5424 NTE5426 NTE5437 NTE5455 NTE5457 NTE5456 NTE5458 NTE5460 NTE5465 NTE5466	Pkg. T0-92 T0-92 T0-92 T0-92 T0-92 T0-126 T0-220 T0-220 T0-220 T0-202 T0-202 T0-202 T0-202 T0-202 T0-202 T0-202	Bridge rectifier Bridge rectifier <b>Rectifie</b> Description  30 VRM, 0.8A . 60 VRM, 0.8A . 100 VRM, 0.8A . 200 VRM, 0.8A . 400 VRM, 4.A . 400 VRM, 4.A . 400 VRM, 10A . 200 VRM, 4.A . 400 VRM, 4.A .	600V 1000V rs (S	40A 40A 6CR)	12 Package I	1.39 22.79 Descr 1 \$.79 .97 .97 1.33 2.19 1.65 5.45 2.59 2.15 1.19 1.33 2.05 0.29 2.75 4.19	10.79 12.29 ip. (see 10 \$.62 .91 .89 1.29 2.14 1.6.31 2.48 2.10 1.12 1.29 1.99	10.24 11.80 25 \$.60 .87 .78 1.25 2.08 1.57 6.17 2.26 2.04 1.02 1.25 1.94 9.76 2.36
259813CH 259821CH 259830CH 272436CH 259645CH 274407CH 259848CH 259856CH 259864CH 274781CH 274790CH 259891CH 274829CH 259901CH 259910CH 274933CH	Cross Ref.  NTE116  NTE125  NTE156  NTE156A  NTE506  NTE517  NTE541  NTE552  NTE558  NTE569  NTE571  NTE572  NTE574  NTE575  NTE576  NTE577  NTE579  NTE577  NTE580  NTE597	DO-41 DO-41 DO-41 — DO-41 — DO-35 DO-41 DO-41 — DO-41 DO-41 DO-41 DO-41 DO-41 DO-41 SOD57 TO-220	Rectifier Rectifier	600V 1000V 1000V 1000V 1400V 15000V 8400V 600V 1500V 1000V 400V 1000V 400V 1000V 400V 1000V 600V 200V	AFC 1A 2.5A 3A 2A 200A 50A 1A 3A 2.9A 6A 1A 5A 3A	1	10 \$.45 .48 .63 .67 1.06 4.95 8.29 .90 1.63 1.03 .61 1.03 .53 .65 1.79 2.39 3.45 2.59	25 \$.42 .45 .60 .61 1.02 4.85 8.25 .87 1.57 .95 .58 1.00 .48 .56 1.73 2.19 3.33 2.47 1.53	259792CH 259805CH Silico Part No. 274538CH 260056CH 260064CH 274546CH 274554CH 274554CH 27459CH 274597CH 260081CH 260099CH 274600CH 274626CH 274626CH 274626CH	NTE5342 NTE5344 NTE5400 NTE5401 NTE5402 NTE5402 NTE5404 NTE5404 NTE5404 NTE5414 NTE5424 NTE5426 NTE5437 NTE5455 NTE5457 NTE5458 NTE5466 NTE5466 NTE5466	Pkg. T0-92 T0-92 T0-92 T0-92 T0-92 T0-126 T0-220 T0-220 T0-202 T0-202 T0-202 T0-202 T0-202 T0-202 T0-202 T0-202 T0-202	Bridge rectifier Bridge rectifier Rectifie Description 30 VRM, 0.8A . 60 VRM, 0.8A . 200 VRM, 0.8A . 400 VRM, 0.8A . 400 VRM, 4.A . 400 VRM, 4.A . 400 VRM, 4A . 600 PRV, 4A 800 VRM, 25A . 400 VRM, 10A . 600 VRM, 10A . 600 VRM, 10A .	600V 1000V rs (S	40A 40A 6CR)	10 Package I	1.39 2.79 Descr 1 \$.79 .97 .97 1.33 2.19 1.65 5.45 2.259 2.15 1.19 1.33 2.05 0.29 2.75 4.19	10.79 12.29 rip. (see 10 \$.62 .91 .89 1.29 2.14 1.61 6.31 2.48 2.10 1.12 1.29 1.99 10.03 2.59 4.00	10.24 11.80 25 \$.60 .87 .78 1.25 2.08 1.57 6.17 2.26 2.04 1.02 1.25 1.94 9.76 2.36 3.80 14.83
259813CH 259821CH 259820CH 272436CH 259645CH 274407CH 259886CH 259856CH 259872CH 274781CH 274790CH 274811CH 274811CH 274829CH 2598910CH 259910CH 259910CH 274933CH 260021CH 274992CH 274802CH	Cross Ref.  NTE116  NTE125  NTE156  NTE156A  NTE506  NTE517  NTE541  NTE552  NTE558  NTE569  NTE571  NTE571  NTE574  NTE574  NTE575  NTE576  NTE576  NTE579  NTE577  NTE580  NTE597  NTE598  NTE598  NTE598  NTE598  NTE5740	DO-41 DO-41 DO-41 — DO-41 — DO-35 DO-41 DO-41 — DO-41 DO-41 DO-41 DO-27 DO-41 SOD57 TO-220/2	Rectifier Rectifier	600V 1000V 1000V 1000V 1400V 15000V 8400V 600V 1500V 400V 1000V 400V 90V 1000V 600V 200V 600V	AFC 1A 2.5A 3A 2A 200A 50A 1A 3A 2.9A 6A 1A 5A 3A	1	10 \$.45 .48 .63 .67 1.06 4.95 8.29 .90 1.63 1.03 .61 1.03 .53 .65 1.79 2.39 3.45 2.59 1.61 2.11	25 \$.42 .45 .60 .61 1.02 4.85 8.25 .87 1.57 .95 .58 1.00 .48 .56 1.73 2.19 3.33 2.47 1.53 2.08	259792CH 259805CH Silico Part No. 274538CH 260056CH 260054CH 274554CH 274554CH 274554CH 274571CH 274589CH 274597CH 260081CH 260099CH 274600CH 27462CH 27462CH	NTE5342 NTE5344 NTE5340 NTE5400 NTE5401 NTE5402 NTE5404 NTE5405 NTE5414 NTE5424 NTE5426 NTE5457 NTE5457 NTE5457 NTE5458 NTE5458 NTE5466 NTE5466 NTE547	Pkg. T0-92 T0-92 T0-92 T0-92 T0-92 T0-126 T0-220 T0-220 T0-202 T0-202 T0-202 T0-202 T0-202 T0-202 T0-202 T0-2048	Bridge rectifier Bridge rectifier Rectifie Description 30 VRM, 0.8A . 60 VRM, 0.8A . 200 VRM, 0.8A . 400 VRM, 0.8A . 400 VRM, 4.A . 400 VRM, 4.A . 400 VRM, 4A . 600 PRV, 4A 800 VRM, 25A . 400 VRM, 10A . 600 VRM, 10A . 600 VRM, 10A .	600V 1000V rs (S	40A 40A 6CR)	12 Package I	1.39 2.79 Descr 1 \$.79 .97 .97 1.33 2.19 1.65 5.45 2.259 2.15 1.19 1.33 2.05 0.29 2.75 4.19	10.79 12.29 ip. (see 10 \$.62 .91 .89 1.29 2.14 1.61 6.31 2.48 2.10 1.12 1.29 1.99 10.03 2.59 4.00 15.24	10.24 11.80 25 \$.60 .87 .78 1.25 2.08 1.57 6.17 2.26 2.04 1.02 1.25 1.94 9.76 2.36 3.80 14.83
259813CH 259821CH 259820CH 272436CH 259645CH 274407CH 259848CH 259856CH 259864CH 259872CH 2747790CH 274790CH 274811CH 274811CH 274829CH 274933CH 260021CH 274932CH 27492CH 274802CH 259928CH	Cross Ref.  NTE116  NTE125  NTE156  NTE156A  NTE506  NTE517  NTE541  NTE552  NTE558  NTE559  NTE571  NTE572  NTE574  NTE575  NTE576  NTE576  NTE579  NTE577  NTE580  NTE597  NTE598  NTE598  NTE598  NTE590  NTE590  NTE591	DO-41 DO-41 DO-41 — DO-41 — DO-35 DO-41 DO-41 DO-41 DO-41 DO-41 DO-41 SOD57 TO-220 TO-220/2 DO-213AA — DO-41	Rectifier	600V 1000V 1000V 1000V 1400V 15000V 8400V 600V 1500V 400V 1000V 400V 90V 1000V 600V 200V 600V 400V 50V	AFC 1A 2.5A 3A 2A 200A 50A 1A 3A 2.9A 6A 1A 5A 3A	1	10 \$.45 .48 .63 .67 1.06 4.95 8.29 .90 1.63 1.03 .61 1.03 .53 .65 1.79 2.39 3.45 2.59 1.61 2.11 2.26	25 \$.42 .45 .60 .61 1.02 4.85 8.25 .87 1.57 .95 .58 1.00 .48 .56 1.73 2.19 3.33 2.47 1.53 2.08 2.22 28.15 .30	259792CH 259805CH Silico Part No. 274538CH 260056CH 260054CH 274546CH 274554CH 274554CH 274571CH 274589CH 274597CH 260081CH 260099CH 27460CH 27462CH 27462CH 27462CH	NTE5342 NTE5344 NTE5400 NTE5400 NTE5401 NTE5402 NTE5404 NTE5405 NTE5414 NTE5424 NTE5426 NTE5457 NTE5455 NTE5455 NTE5458 NTE5456 NTE5466 NTE5466 NTE547	Pkg. T0-92 T0-92 T0-92 T0-92 T0-92 T0-126 T0-220 T0-220 T0-202 T0-202 T0-202 T0-202 T0-202 T0-202 T0-2048 S/Sidac	Bridge rectifier Bridge rectifier  Rectifie  Description 30 VRM, 0.8A . 60 VRM, 0.8A . 200 VRM, 0.8A . 200 VRM, 0.8A . 200 VRM, 4.A . 400 VRM, 4.7A, 400 VRM, 10A . 400 VRM, 4A . 600 PRV, 4A 800 VRM, 4A 600 PRV, 4A 800 VRM, 35A 55  Description	600V 1000V rs (S	40A 40A 6CR)	12 Package I	1.39 2.79 Descr 1 \$.79 .97 .97 1.33 2.19 1.65 6.45 2.59 2.15 1.19 1.33 2.05 0.29 2.75 4.19	10.79 12.29 ip. (see 10 \$.62 .91 .89 1.29 2.14 1.61 6.31 2.48 2.10 1.12 1.29 10.03 2.59 4.00 15.24 ion (see	10.24 11.80 25 \$.60 .87 .78 1.25 2.08 1.57 6.17 2.26 2.04 1.02 1.25 1.94 9.76 2.36 3.80 14.83
259813CH 259821CH 259820CH 272436CH 259645CH 274407CH 259848CH 259856CH 259872CH 2747790CH 2747790CH 274811CH 274811CH 274829CH 274933CH 260021CH 274932CH 27492CH 27492CH 259936CH	Cross Ref.  NTE116  NTE125  NTE156  NTE156A  NTE506  NTE517  NTE541  NTE552  NTE558  NTE569  NTE571  NTE572  NTE574  NTE575  NTE575  NTE576  NTE579  NTE577  NTE580  NTE597  NTE598  NTE597  NTE598  NTE590  NTE5740  NTE5800  NTE5800  NTE5800  NTE5800	DO-41 DO-41 DO-41 — DO-41 — DO-35 DO-41 DO-41 DO-41 DO-41 DO-41 DO-27 DO-41 SOD57 TO-220/2 DO-213AA — DO-41 DO-41	Rectifier	600V 1000V 1000V 1000V 1400V 15000V 8400V 600V 1500V 400V 1000V 400V 90V 1000V 600V 200V 600V 400V 50V 1000V	AFC 1A 2.5A 3A 2A 200A 1A 3A 2.9A 6A 1A 5A 3A	1 \$.49 \$.50 .67 .72 .1.10 .5.05 8.39 .93 .1.69 .1.12 .64 .1.05 .58 .67 .1.85 .2.59 .2.75 .1.69 .2.15 .2.29 .36.79 .33 .48	10 \$.45 .48 .63 .67 1.06 4.95 8.29 .90 1.63 1.03 .61 1.03 .53 .65 1.79 2.39 3.45 2.59 1.61 2.11 2.26 29.43 .31 .45	25 \$.42 .45 .60 .61 1.02 4.85 8.25 .87 1.57 .95 .58 1.00 .48 .56 1.73 2.19 3.33 2.47 1.53 2.08 2.22 28.15 .30 .44	259792CH 259805CH Silico Part No. 274538CH 260056CH 260064CH 27454CH 27454CH 274554CH 274597CH 260081CH 260099CH 274600CH 274618CH 274642CH 274642CH 274642CH 274642CH 274642CH 274693CH	NTE5342 NTE5344 NTE5400 NTE5400 NTE5401 NTE5402 NTE5405 NTE5405 NTE5405 NTE5414 NTE5424 NTE5426 NTE5426 NTE5455 NTE5458 NTE5458 NTE5460 NTE5547 /Triacs	Pkg. T0-92 T0-92 T0-92 T0-92 T0-92 T0-126 T0-220 T0-220 T0-202	Bridge rectifier Bridge rectifier  Rectifie  Description  30 VRM, 0.8A . 60 VRM, 0.8A . 100 VRM, 0.8A . 200 VRM, 0.8A . 400 VRM, 0.8A . 400 VRM, 4.7A, 400 VRM, 10A . 400 VRM, 10A . 400 VRM, 4 400 VRM, 25A . 600 PRV, 4A 800 VRM, 25A . 600 VRM, 10A . 600 VRM, 10A . 600 VRM, 35A .  S  Description  Triac, 400 VRM	600V 1000V rs (S	40A 40A 6CR)	10 Package I	1.39 2.79 Descr 1 \$.79 .97 .97 1.33 2.19 1.65 6.45 2.59 2.15 1.19 1.33 2.05 0.29 2.75 4.19 1.5.65	10.79 12.29 rip. (see 10 \$.62 .91 .89 1.29 2.14 1.61 6.31 2.48 2.10 1.12 1.29 1.99 10.03 2.59 4.00 15.24 ion (see	10.24 11.80 25 \$.60 .87 .78 1.25 2.08 1.57 6.17 2.26 2.04 1.02 1.25 1.94 9.76 2.36 3.80 14.83 2.99 51)
259813CH 259821CH 259821CH 259830CH 272436CH 259645CH 274407CH 259848CH 259856CH 259856CH 274781CH 274790CH 259881CH 274811CH 259899CH 274829CH 259910CH 259910CH 274933CH 274932CH 27492CH 27492CH 27492CH 27492CH 274802CH 259936CH 259936CH 274837CH	Cross Ref.  NTE116  NTE125  NTE156  NTE156A  NTE506  NTE517  NTE541  NTE552  NTE558  NTE569  NTE571  NTE572  NTE574  NTE575  NTE575  NTE576  NTE579  NTE577  NTE580  NTE597  NTE598  NTE597  NTE598  NTE5740  NTE5800  NTE5800  NTE5800  NTE5801	DO-41 DO-41 DO-41	Rectifier	600V 1000V 1000V 1000V 1400V 15000V 8400V 1500V 600V 1000V 400V 90V 1000V 400V 200V 600V 200V 600V 200V 50V 100V	AFC 1A 2.5A 3A 200A 50A 1A 1A 3A 2.9A 6A 3A 5A 3A 3A 5A 3A	1\$495067721.105058.39931.691.12641.0558671.852.592.751.692.152.2936.79334858	10 \$.45 .48 .63 .67 1.06 4.95 8.29 .90 1.63 .61 1.03 .53 .65 1.79 2.39 3.45 2.59 1.61 2.11 2.26 29.43 .31 .45 .53	25 \$.42 .45 .60 .61 1.02 4.85 8.25 .87 1.57 .95 .58 1.00 .48 .56 1.73 2.19 3.33 2.47 1.53 2.08 2.22 28.15 .30 .44 .50	259792CH 259805CH Silico Part No. 274538CH 260056CH 260072CH 274546CH 274554CH 274557CH 274597CH 260081CH 260099CH 274600CH 274626CH 27462CH 274642CH Diacs Part No. 274693CH 274693CH	NTE5342 NTE5344 NTE5400 NTE5401 NTE5402 NTE5402 NTE5405 NTE5405 NTE5405 NTE5414 NTE5424 NTE5426 NTE5426 NTE5457 NTE5458 NTE5458 NTE5460 NTE5547 /Triacs	Pkg. T0-92 T0-92 T0-92 T0-92 T0-92 T0-220 T0-220 T0-202 T0-202 T0-202 T0-202 T0-202 T0-202 T0-208 Formula (Pkg.) T0-220 T0-220 T0-220 T0-220 T0-202	Bridge rectifier Bridge rectifier  Rectifie  Description  30 VRM, 0.8A . 60 VRM, 0.8A . 100 VRM, 0.8A . 200 VRM, 0.8A . 400 VRM, 0.8A . 400 VRM, 4.7A, 400 VRM, 10A . 400 VRM, 4A . 400 VRM, 4A . 400 VRM, 4A . 600 PRV, 4A 800 VRM, 10A . 600 VRM, 10A . 600 VRM, 10A . 600 VRM, 35A  S  Description  Triac, 400 VRM Triac, 600 VRM	600V 1000V rs (S	Padete	Package I  9  11  12  Package I  11  12  13  14  15  16  16  17  18  18  18  18  18  18  18  18  18	1.39 2.79  Descr  1 \$.79 .97 .97 1.33 2.19 1.65 5.45 2.59 2.15 1.19 2.75 4.19 5.65  description of the control	10.79 12.29 rip. (see 10 \$.62 .91 .89 1.29 2.14 1.61 6.31 2.48 2.10 1.12 1.29 1.99 10.03 2.59 4.00 15.24 ion (see	10.24 11.80 25 \$.60 .87 .78 1.25 2.08 1.57 6.17 2.26 2.04 1.02 1.25 1.94 9.76 2.36 3.80 14.83 25 \$\frac{1}{2}\$
259813CH 259821CH 259821CH 259830CH 272436CH 259645CH 274407CH 259848CH 259856CH 259856CH 274781CH 274790CH 259881CH 274811CH 259899CH 274829CH 259901CH 259910CH 274933CH 260021CH 274992CH 274992CH 274802CH 274802CH 259936CH 259936CH 259934CH	Cross Ref.  NTE116  NTE125  NTE156  NTE156A  NTE506  NTE517  NTE541  NTE552  NTE558  NTE569  NTE571  NTE572  NTE574  NTE575  NTE575  NTE576  NTE579  NTE577  NTE580  NTE597  NTE598  NTE597  NTE598  NTE590  NTE5800  NTE5800  NTE5801  NTE5802  NTE5804	D0-41 D0-41	Rectifier	600V 1000V 1000V 1000V 1400V 15000V 8400V 1500V 600V 1000V 400V 90V 1000V 600V 200V 400V 800V 50V 100V 400V	AFC 1A 2.5A 3A 2A 200A 50A 1A 3A	1	10 \$.45 .48 .63 .67 1.06 4.95 8.29 .90 1.63 1.03 .53 .65 1.79 2.39 3.45 2.59 1.61 2.11 2.26 29.43 .31 .45 .53	25 \$.42 .45 .60 .61 1.02 4.85 8.25 .87 1.57 .95 .58 1.00 .48 .56 1.73 2.19 3.33 2.47 1.53 2.22 28.15 .30 .44 .50 .54	259792CH 259805CH Silico Part No. 274538CH 260056CH 260064CH 274554CH 274554CH 274554CH 274597CH 260081CH 260099CH 274600CH 274626CH 274624CH Diacs Part No. 274693CH 274693CH 274691CH 274691CH 27461CH	NTE5342 NTE5344 NTE5400 NTE5401 NTE5402 NTE5404 NTE5404 NTE5404 NTE5404 NTE5414 NTE5424 NTE5426 NTE5437 NTE5455 NTE5457 NTE5456 NTE5466 NTE5466 NTE5547 /Triacs	Pkg. T0-92 T0-92 T0-92 T0-92 T0-92 T0-126 T0-220 T0-220 T0-202 T0-202 T0-202 T0-202 T0-202 T0-208 Fkg. T0-220 T0-220 T0-220 T0-220 T0-202	Bridge rectifier Bridge rectifier  Rectifie  Description  30 VRM, 0.8A . 60 VRM, 0.8A . 100 VRM, 0.8A . 200 VRM, 0.8A 400 VRM, 0.8A 400 VRM, 4.7A, 400 VRM, 10A 400 VRM, 4A . 400 VRM, 4A . 400 VRM, 4A . 600 PRV, 4A 800 VRM, 10A 600 VRM, 10A 600 VRM, 10A 600 VRM, 35A  S  Description  Triac, 400 VRM Triac, 600 VRM Triac, 600 VRM	600V 1000V rs (S	Padete	Package I  9  11  12  Package I  15  16  17  18  18  18  18  18  18  18  18  18	1.39 2.79  Descr  1 \$.79 .97 .97 1.33 2.19 1.65 5.45 2.59 2.15 1.19 2.75 4.19 5.65 5.35 5.35	10.79 12.29 rip. (see 10 \$.62 .91 .89 1.29 2.14 1.61 6.31 2.48 2.10 1.12 1.29 1.99 10.03 2.59 4.00 15.24 ion (see	10.24 11.80 25 \$.60 .87 .78 1.25 2.08 1.57 6.17 2.26 2.04 1.02 1.25 1.94 9.76 2.36 3.80 14.83 pg 51) 25 \$\frac{1}{2}\$
259813CH 259821CH 259821CH 259830CH 272436CH 259645CH 274407CH 259848CH 259856CH 274781CH 274790CH 25981CH 274811CH 25989CH 274811CH 2598910CH 274933CH 260021CH 274992CH 274992CH 274992CH 27493CH 259936CH 259936CH 259936CH 259936CH 259944CH 259952CH	Cross Ref.  NTE116  NTE125  NTE156  NTE156A  NTE506  NTE517  NTE541  NTE552  NTE558  NTE559  NTE574  NTE575  NTE576  NTE577  NTE580  NTE597  NTE598  NTE597  NTE598  NTE598  NTE5800  NTE5800  NTE5800  NTE5801  NTE5802  NTE5804  NTE5806	DO-41 DO-41	Rectifier	600V 1000V 1000V 1000V 1400V 15000V 8400V 600V 1000V 400V 1000V 400V 90V 1000V 600V 200V 400V 800V 50V 100V 400V	AFC 1A 2.5A 3A 2A 2OOA 5OA 1A 3A	1	10 \$.45 .48 .63 .67 1.06 4.95 8.29 .90 1.63 1.03 .53 .65 1.79 2.39 3.45 2.59 1.61 2.11 2.26 29.43 .31 .45 .53	25 \$.42 .45 .60 .61 1.02 4.85 8.25 .87 1.57 .95 .58 1.00 .48 .56 1.73 2.19 3.33 2.47 1.53 2.22 28.15 .30 .44 .50 .54	259792CH 259805CH Part No. 274538CH 260056CH 260064CH 260072CH 274554CH 274554CH 274554CH 274597CH 260081CH 260099CH 274600CH 274626CH 274626CH 274642CH Diacs Part No. 274693CH 274706CH 274714CH 261147CH	NTE5342 NTE5344 NTE5400 NTE5401 NTE5402 NTE5404 NTE5404 NTE5404 NTE5404 NTE5414 NTE5424 NTE5426 NTE5457 NTE5455 NTE5456 NTE5466 NTE5465 NTE5466 NTE5547 /Triacs	Pkg. T0-92 T0-92 T0-92 T0-92 T0-92 T0-92 T0-220 T0-220 T0-202	Bridge rectifier Bridge rectifier  Rectifie  Description  30 VRM, 0.8A . 60 VRM, 0.8A . 200 VRM, 0.8A . 400 VRM, 0.8A . 400 VRM, 4.A . 400 VRM, 10A . 400 VRM, 4A . 400 VRM, 4A . 400 VRM, 4A . 600 PRV, 4A 800 VRM, 25A . 400 VRM, 10A . 600 VRM, 10A . 500 VRM, 35A  CS  Description  Triac, 400 VRM Triac, 800 VRM Triac, 800 VRM Triac, 400 VRM Triac, 400 VRM Triac, 400 VRM	600V 1000V rs (S	Partte	1 Package I	1.39 2.79  Descr  1 \$.79 .97 .97 1.33 2.19 1.65 5.45 2.59 2.15 1.19 1.33 2.05 5.25 1.19 1.33 2.05 5.25 1.19 1.33 2.05 1.19 1.33	10.79 12.29 10. (see 10. (see 10. (see 10. 12. 14. 1. 12. 14. 1. 12. 14. 14. 16. 16. 16. 16. 16. 16. 16. 16. 16. 16	10.24 11.80 25 \$.60 .87 .78 1.25 2.08 1.57 6.17 2.26 2.04 1.02 1.25 1.94 9.76 2.36 3.80 14.83 25 25 20 20 20 20 20 20 20 20 20 20
259813CH 259821CH 259821CH 259830CH 272436CH 259645CH 274407CH 259848CH 259856CH 274781CH 274790CH 259891CH 274811CH 259891CH 274829CH 259910CH 274933CH 260021CH 274992CH 274992CH 274892CH 274892CH 259936CH 259936CH 259934CH 259952CH 259952CH 274845CH	Cross Ref.  NTE116  NTE125  NTE156  NTE156A  NTE506  NTE517  NTE541  NTE552  NTE558  NTE559  NTE574  NTE575  NTE576  NTE577  NTE580  NTE597  NTE598  NTE597  NTE598  NTE598  NTE598  NTE598  NTE5800  NTE5801  NTE5802  NTE5804  NTE5806  NTE5808	DO-41 DO-41	Rectifier	600V 1000V 1000V 1000V 1400V 15000V 8400V 600V 1500V 400V 1000V 400V 90V 1000V 600V 200V 400V 800V 50V 100V 400V 800V 800V 800V 800V	AFC 1A 2.5A 3A 2A 2OOA 5OA 1A 3A 2.9A 6A 5A 3A	1	10 \$.45 .48 .63 .67 1.06 4.95 8.29 .90 1.63 1.03 .53 .65 1.79 2.39 3.45 2.59 1.61 2.11 2.24 3.3 .45 .53 .53 .54 .55 .56 .59 .59 .61 .61 .61 .61 .61 .62 .63 .65 .65 .65 .65 .65 .65 .65 .65	25 \$.42 .45 .60 .61 1.02 4.85 8.25 .87 1.57 .95 .58 1.00 .48 .56 1.73 2.19 3.33 2.47 1.53 2.02 2.8.15 .30 .44 .50 .54 .88 .99	259792CH 259805CH Silico Part No. 274538CH 260056CH 260064CH 260072CH 274554CH 274554CH 274557CH 260081CH 260099CH 274600CH 274626CH 274626CH 274642CH Diacs Part No. 274693CH 274706CH 274714CH 261147CH 274722CH	NTE5342 NTE5344 NTE5400 NTE5401 NTE5402 NTE5404 NTE5405 NTE5405 NTE5405 NTE5424 NTE5426 NTE5426 NTE5457 NTE5455 NTE5466 NTE5466 NTE5466 NTE55467 NTE55460 NTE5668 NTE5609 NTE5609 NTE5620 NTE5629 NTE5629 NTE5629	Pkg. T0-92 T0-92 T0-92 T0-92 T0-92 T0-126 T0-220 T0-220 T0-202 T0-220	Bridge rectifier Bridge rectifier  Rectifie  Description  30 VRM, 0.8A . 60 VRM, 0.8A . 200 VRM, 0.8A . 400 VRM, 0.8A . 400 VRM, 4.A . 400 VRM, 4.A . 400 VRM, 4A . 400 VRM, 4A . 400 VRM, 4A . 400 VRM, 4A . 600 PRV, 4A 800 VRM, 25A 400 VRM, 10A 500 VRM, 10A 100 VRM, 35A 100 V	600V 1000V rs (S	Pacte	10 Package I	1.39 2.79 Descr 1 \$.79 .97 .97 1.33 2.19 1.65 5.45 2.59 2.15 1.19 1.33 2.05 0.29 2.75 4.19 1.33 4.19 1.33 3.45 5.35 1.99 3.49	10.79 12.29 rip. (see 10 \$.62 .91 .89 1.29 2.14 1.61 6.31 2.48 2.10 1.12 1.29 1.99 10.03 2.59 4.00 15.24 ion (see 10 \$2.33 3.37 4.62 1.89 3.22	10.24 11.80 25 \$.60 .87 .78 1.25 2.08 1.57 6.17 2.26 2.04 1.02 1.25 1.94 9.76 2.36 3.80 14.83 25 2.10 2.36 3.80 14.83 25 25 20.8
259813CH 259821CH 259821CH 259830CH 272436CH 274407CH 259848CH 259856CH 2747811CH 2747811CH 2747811CH 259899CH 274829CH 259901CH 274933CH 260021CH 27492CH 274802CH 2	Cross Ref.  NTE116  NTE125  NTE156  NTE156A  NTE506  NTE517  NTE541  NTE552  NTE558  NTE559  NTE574  NTE575  NTE576  NTE577  NTE580  NTE597  NTE598  NTE597  NTE598  NTE598  NTE598  NTE590  NTE590  NTE5800  NTE5800  NTE5801  NTE5802  NTE5804  NTE5808  NTE5808  NTE5808	DO-41 DO-41	Rectifier	600V 1000V 1000V 1000V 1400V 15000V 8400V 600V 1000V 400V 1000V 400V 90V 1000V 600V 400V 90V 1000V 600V 400V 90V 1000V 600V 400V 800V 50V 1000V 800V 50V	AFC 1A 2.5A 3A 2A 2OOA 5OA 1A 1A 3A 3A 5A 3A	1	10 \$.45 .48 .63 .67 1.06 4.95 8.29 .90 1.63 1.03 .65 1.79 2.39 3.45 2.59 1.61 2.11 2.26 29.31 .45 .53 .53 .65 1.79 1.61 1.11 1.62 1.63 1.63 1.63 1.63 1.63 1.63 1.63 1.65 1.79 1.65 1.79 1.61	25 \$.42 .45 .60 .61 1.02 4.85 8.25 .87 1.57 .58 1.00 .48 .56 1.73 2.19 3.33 2.47 1.53 2.08 2.22 28.15 .30 .44 .50 .54 .88 .99 1.25	259792CH 259805CH Silico Part No. 274538CH 260056CH 260064CH 260072CH 274554CH 274554CH 274571CH 274589CH 274597CH 260081CH 274600CH 274618CH 274626CH 274642CH Diacs Part No. 274693CH 274706CH 274714CH 261147CH 274722CH 274731CH	NTE5342 NTE5344 NTE5400 NTE5401 NTE5402 NTE5404 NTE5404 NTE5405 NTE5404 NTE5424 NTE5426 NTE5427 NTE5425 NTE5457 NTE5455 NTE5456 NTE5466 NTE5466 NTE5466 NTE5547 /Triacs	Pkg. T0-92 T0-92 T0-92 T0-92 T0-126 T0-220 T0-220 T0-202 T0-220 T0-220 T0-220 T0-220 T0-220	Bridge rectifier Bridge rectifier  Rectifie  Description  30 VRM, 0.8A . 60 VRM, 0.8A . 200 VRM, 0.8A . 400 VRM, 0.8A . 400 VRM, 4.A . 600 PRV, 4A 800 VRM, 25A 800 VRM, 10A 600 VRM, 10A 55  Description  Triac, 400 VRM	600V 1000V rs (S high s <sub>1</sub> high s <sub>2</sub> 8A, ga 8A, ga 8A, isc 4A 10A 8A iso	Pacte	11 Package I	1.39 2.79 Descr 1 \$.79 .97 1.33 2.19 1.65 5.45 2.59 2.15 1.19 1.33 2.05 0.29 2.75 4.19 1.255 3.45 5.35 1.99 3.05	10.79 12.29 rip. (see 10 \$.62 .91 .89 1.29 2.14 1.61 6.31 2.48 2.10 1.12 1.29 1.99 10.03 2.59 4.00 15.24 ion (see 10 \$2.33 3.37 4.62 1.89 3.22 2.97	10.24 11.80 25 \$.60 .87 .78 1.25 2.08 1.57 6.17 2.26 2.04 1.02 1.25 1.94 9.76 2.36 3.80 14.83 25 2.86 2.89
259813CH 259821CH 259821CH 259830CH 272436CH 259645CH 274407CH 259848CH 259856CH 274781CH 274790CH 259891CH 274811CH 259891CH 274829CH 259910CH 274933CH 260021CH 274992CH 274992CH 274892CH 274892CH 259936CH 259936CH 259934CH 259952CH 259952CH 274845CH	Cross Ref.  NTE116  NTE125  NTE156  NTE156A  NTE506  NTE517  NTE541  NTE552  NTE558  NTE559  NTE571  NTE575  NTE576  NTE579  NTE577  NTE580  NTE597  NTE598  NTE598  NTE598  NTE598  NTE5980  NTE5980  NTE5800  NTE5800  NTE5801  NTE5802  NTE5804  NTE5808  NTE5808  NTE5809  NTE5809  NTE5809  NTE5809	DO-41 DO-41	Rectifier	600V 1000V 1000V 1000V 1400V 15000V 8400V 600V 1500V 400V 1000V 400V 90V 1000V 600V 200V 400V 800V 50V 100V 400V 800V 800V 800V 800V	AFC 1A 2.5A 3A 2A 2 200A 50A 1A 1A 3A 3A 5A 3A	1	10 \$.45 .48 .63 .67 1.06 4.95 8.29 .90 1.63 1.03 .61 1.03 .53 .65 1.79 2.39 3.45 2.59 1.61 2.11 2.26 29.43 .31 .45 .53 .53 .65 1.79 1.61 2.11 2.26 2.11 2.26 .90 1.63 .61 .61 .61 .61 .61 .61 .61 .61	25 \$.42 .45 .60 .61 1.02 4.85 8.25 .87 1.57 .95 .58 1.00 .48 .56 1.73 2.19 3.33 2.47 1.53 2.02 2.8.15 .30 .44 .50 .54 .88 .99	259792CH 259805CH Silico Part No. 274538CH 260056CH 260064CH 260072CH 274554CH 274554CH 274562CH 274597CH 260081CH 274600CH 274600CH 274626CH 27462CH Diacs Part No. 274693CH 274760CH 274760CH 274749CH	NTE5342 NTE5344 NTE5340 NTE5400 NTE5401 NTE5402 NTE5404 NTE5405 NTE5414 NTE5426 NTE5414 NTE5426 NTE5437 NTE5455 NTE5457 NTE5456 NTE5466 NTE5466 NTE5467 NTE5460 NTE5608 NTE5608 NTE5608 NTE5608 NTE5620 NTE5629 NTE5629 NTE5629 NTE5625 NTE5635 NTE5638 NTE5638	Pkg. T0-92 T0-92 T0-92 T0-92 T0-92 T0-126 T0-220 T0-220 T0-202 T0-220	Bridge rectifier Bridge rectifier  Rectifie  Description  30 VRM, 0.8A . 60 VRM, 0.8A . 200 VRM, 0.8A . 400 VRM, 0.8A . 400 VRM, 4.A . 400 VRM, 4.A . 400 VRM, 4A . 400 VRM, 4A . 400 VRM, 4A . 400 VRM, 4A . 600 PRV, 4A 800 VRM, 25A 400 VRM, 10A 500 VRM, 10A 100 VRM, 35A 100 V	600V 1000V rs (S	Pac  te	11 Package I	1.39 2.79 Descr 1 \$.79 .97 1.33 2.19 1.65 5.45 2.59 2.15 1.19 1.33 2.05 0.29 2.75 4.19 5.65 5.35 1.99 3.49	10.79 12.29 rip. (see 10 \$.62 .91 .89 1.29 2.14 1.61 6.31 2.48 2.10 1.12 1.29 1.99 10.03 2.59 4.00 15.24 ion (see 10 \$2.33 3.37 4.62 1.89 3.22	10.24 11.80 25 \$.60 .87 .78 1.25 2.08 1.57 6.17 2.26 2.04 1.02 1.25 1.94 9.76 2.36 3.80 14.83 25 2.10 2.36 3.80 14.83 25 25 20.8
259813CH 259821CH 259821CH 259830CH 272436CH 259645CH 274407CH 259848CH 259856CH 259864CH 259872CH 274781CH 274781CH 274811CH 274829CH 259901CH 259901CH 259901CH 274933CH 260021CH 274992CH 274992CH 259928CH 259936CH 274837CH 259944CH 259952CH 274845CH 259979CH	Cross Ref.  NTE116  NTE125  NTE156  NTE156A  NTE506  NTE517  NTE541  NTE552  NTE558  NTE559  NTE574  NTE575  NTE576  NTE577  NTE580  NTE597  NTE598  NTE597  NTE598  NTE598  NTE598  NTE590  NTE590  NTE5800  NTE5800  NTE5801  NTE5802  NTE5804  NTE5808  NTE5808  NTE5808	DO-41 DO-41	Rectifier	600V 1000V 1000V 1000V 1400V 15000V 8400V 600V 1000V 400V 1000V 400V 90V 1000V 600V 200V 600V 200V 600V 200V 600V 1000V	AFC 1A 2.5A 3A 2A 2 200A 50A 1A 1A 3A	1	10 \$.45 .48 .63 .67 1.06 4.95 8.29 .90 1.63 1.03 .65 1.79 2.39 3.45 2.59 1.61 2.11 2.26 29.31 .45 .53 .53 .65 1.79 1.61 1.11 1.62 1.63 1.63 1.63 1.63 1.63 1.63 1.63 1.65 1.79 1.65 1.79 1.61	25 \$.42 .45 .60 .61 1.02 4.85 8.25 .87 1.57 .95 .58 1.00 .48 .56 1.73 2.19 3.33 2.47 1.53 2.08 2.22 28.15 .30 .44 .50 .54 .88 .99 1.25 .88	259792CH 259805CH Silico Part No. 274538CH 260056CH 260064CH 260072CH 274554CH 274554CH 274571CH 274589CH 274597CH 260081CH 274600CH 274618CH 274626CH 274642CH Diacs Part No. 274693CH 274706CH 274714CH 261147CH 274722CH 274731CH	NTE5342 NTE5344  In Coni Cross Ref. NTE5400 NTE5401 NTE5402 NTE5404 NTE5405 NTE5414 NTE5426 NTE5437 NTE5426 NTE5455 NTE5455 NTE5455 NTE5456 NTE5466 NTE5467 NTE5608 NTE5608 NTE5608 NTE5608 NTE5608 NTE5620 NTE5620 NTE5625 NTE5625 NTE5625 NTE5635 NTE5635 NTE5635 NTE5635 NTE5635 NTE5635	Pkg. T0-92 T0-92 T0-92 T0-92 T0-126 T0-220 T0-220 T0-202 T0-220	Bridge rectifier Bridge rectifier  Rectifie  Description  30 VRM, 0.8A . 60 VRM, 0.8A . 200 VRM, 0.8A . 400 VRM, 0.8A . 400 VRM, 4.A . 500 VRM, 4.A . 600 PRV, 4A 800 VRM, 10A 600 VRM, 10A 500 VRM, 10A CS  Description  Triac, 400 VRM Triac, 600 VRM Triac, 400 VRM Triac, 600 VRM	600V 1000V rs (S	Paced	10 Package I	1.39 2.79 Descr 1 \$.79 .97 .97 1.33 2.19 1.65 5.45 2.59 2.15 1.19 1.33 2.05 0.29 2.75 4.19 5.65 5.35 5.35 1.99 3.49	10.79 12.29 ip. (see 10 \$.62 .91 .89 1.29 2.14 1.61 6.31 2.48 2.10 1.12 1.29 1.99 10.03 2.59 4.00 15.24 ion (see 10 \$2.33 3.37 4.62 1.89 3.22 2.97 3.60	10.24 11.80 25 \$.60 .87 .78 1.25 2.08 1.57 6.17 2.26 2.04 1.02 1.25 1.94 9.76 2.36 3.80 14.83 2.95 2.10 2

261307CH



SIP-9







T -13/4

273586CH NTE3188



DIP-6

T13/4



259178CH

DIP-16



259186CH

DIP-8



259160CH

TO-220

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Size: Iomm	illelillai ruse
/Tricos/Cidoos	(O !! N

Diacs	i ii iacsi	Jiua	3 (Continueu)	Packa	ige (see	py 51)
Part No.	Cross Ref.	Pkg.	Description	1	10	25
260110CH	NTE6404	TO-89	SUS, SI, 1.0A	\$8.85	\$8.79	\$8.75
259400CH	NTE6408	DO-35	Diac	94	.90	.87
260101CH	NTE6419	_	Sidac, 110-125V	2.05	1.99	1.91
274651CH	NTE56008	TO-220	Triac, 600 VRM, 15A	5.09	4.86	4.42
274669CH	NTE56020	TO-220	Triac, 400 VRM, 25A	7.45	7.28	7.10
274677CH	NTE56024	TO-48	Triac, 400 VRM, 40A	13.75	13.38	13.00
274685CH	NTF56026	TO-48	Triac 600 VRM 40A	15.55	15 13	14 71

Varist	ors (MC	)Vs)	Р	ackag	e (see a	above
274685CH	NTE56026	TO-48	Triac, 600 VRM, 40A 15	5.55	15.13	14.71
274677CH	NTE56024	TO-48	Triac, 400 VRM, 40A 13	3.75	13.38	13.00
274669CH	NTE56020	TO-220	Triac, 400 VRM, 25A	7.45	7.28	7.10
274651CH	NTE56008	TO-220	Triac, 600 VRM, 15A	5.09	4.86	4.42
260101CH	NTE6419	_	Sidac, 110-125V 2	2.05	1.99	1.91
2394UUUT	N I E0400	DO-35	DIAC	.94	.90	.07

Varist	ors (MC	)Vs)		Packa	ge (see	above
Part No.	Cross Ref.	Pkg.	Description	1	10	25
272680CH	NTE1V010	8.5mm	10V <sub>RMS</sub> , 12VDC, 0.8 joules	\$1.07	\$.87	\$.85
261286CH	NTE1V020	8.5mm	20V <sub>RMS</sub> , 26VDC, 1.5 joules	1.03	.99	.95
272698CH	NTE1V030	8.5mm	30V <sub>RMS</sub> , 38VDC, 2.3 joules	1.19	1.15	1.11
261294CH	NTE1V130	8.5mm	135V <sub>RMS</sub> , 180VDC, 10 joules	1.08	1.03	.99
273287CH	NTE2V010	16mm	10V <sub>RMS</sub> , 12VDC, 3.5 joules	1.85	1.81	1.76
273295CH	NTE2V025	16mm	25V <sub>RMS</sub> , 31VDC, 7.0 joules	1.85	1.81	1.76
273308CH	NTE2V030	16mm	30V <sub>RMS</sub> , 38VDC, 8.5 joules	1.85	1.81	1.76
273316CH	NTE2V035	16mm	35V <sub>RMS</sub> , 45VDC, 10 joules	1.69	1.40	1.37
273324CH	NTE2V095	16mm	95V <sub>RMS</sub> , 125VDC, 29 joules	1.85	1.81	1.76
261307CH	NTE2V130	16mm	135V <sub>RMS</sub> , 180VDC, 39 joules	1.85	1.79	1.75
273332CH	NTE2V150	16mm	150V <sub>RMS</sub> , 210VDC, 40 joules	2.19	2.14	2.08
261315CH	NTE2V250	16mm	240V <sub>RMS</sub> , 320VDC, 70 joules	2.65	2.54	2.41
273341CH	NTE2V275	16mm	275V <sub>RMS</sub> , 330VDC, 72 joules	2.69	2.62	2.55
274415CH	NTE524V13	23mm	130V <sub>RMS</sub> , 180VDC, 72 joules	2.65	2.40	1.99
274423CH	NTE524V15	23mm	150V <sub>RMS</sub> , 210VDC, 80 joules	2.75	2.68	2.61
261323CH	NTE524V25	23mm	240V <sub>RMS</sub> , 320VDC, 129 joules	2.39	2.35	2.29

Thern	nal Fuse	es		Packa	ge (see	above)
Part No.	Cross Ref.	Description	Dimensions	1	10	25
275346CH	NTE8070	TCO 72°C, 162°F	3.2"L x .157"Dia	\$1.15	\$1.12	\$1.09
261163CH	NTE8076	TCO 77°C, 171°F	3.2"L x .157"Dia	1.13	1.09	1.05
275354CH	NTE8081	TCO 84°C, 184°F	3.2"L x .157"Dia	1.15	1.11	1.07
261171CH	NTE8085	TCO 87°C, 189°F	3.2"L x .157"Dia	1.27	1.23	1.18
261180CH	NTE8090	TCO 93°C, 200°F	3.2"L x .157"Dia	1.13	1.09	1.05
261198CH	NTE8096	TCO 98°C, 208°F	3.2"L x .157"Dia	1.13	1.09	1.05
261201CH	NTE8098	TCO 100°C, 212°F	3.2"L x .157"Dia	1.13	1.09	1.05
261219CH	NTE8103	TCO 104°C, 220°F	3.2"L x .157"Dia	1.13	1.09	1.05
275362CH	NTE8108	TCO 109°C, 229°F	3.2"L x .157"Dia	1.15	1.05	.95
275371CH	NTE8115	TCO 117°C, 243°F	3.2"L x .157"Dia	1.19	1.16	1.13
261227CH	NTE8118	TCO 121°C, 250°F	3.2"L x .157"Dia	1.13	1.09	1.05
275389CH	NTE8125	TCO 128°C, 263°F	3.2"L x .157"Dia	1.15	1.11	1.07
261235CH	NTE8139	TCO 141°C, 286°F	3.2"L x .157"Dia	1.27	1.23	1.18
275397CH	NTE8149	TCO 152°C, 306°F	3.2"L x .157"Dia	1.19	1.11	1.03
275400CH	NTE8167	TCO 169°C, 336°F	3.2"L x .157"Dia	1.15	1.05	.95
261243CH	NTE8181	TCO 184°C, 364°F	3.2"L x .157"Dia	1.13	1.09	1.05
275418CH	NTE8182	TCO 192°C, 378°F	3.2"L x .157"Dia	2.69	2.59	2.30
261251CH	NTE8213	TCO 216°C, 421°F	3.2"L x .157"Dia	1.13	1.09	1.05
275434CH	NTE8226	TCO 228°C, 443°F	3.2"L x .157"Dia	1.15	1.11	1.07

LEDs			Packa	ige (see	above
Part No.	Cross Ref.	Pkg.	Description 1	10	25
260363CH	NTE1866	SIP-9	5-point LED VU scale bar level meter driver \$2.05	\$1.96	\$1.93
273359CH	NTE3007	T1	Red, 4/pk 1.65	1.61	1.57
273367CH	NTE3008	T1	Red, 2/pk	.84	.82
273375CH	NTE3010	T1	Green, 2/pk 1.15	1.11	1.06
273383CH	NTE3020	T13/4	Red, 2/pk 1.01	.84	.82
273391CH	NTE3021	T13/4	Yellow, 2/pk 1.22	.99	.97
273404CH	NTE3022	T13/4	Red, 2/pk	.90	.88
260371CH	NTE3024*	T13/4	Green 5mm, 2.1VF@20mA, 8.7mcd@10mA, 565nm 1.31	1.24	1.19

3.2"L x .157"Dia. ...... 1.13 1.09

TCO 240°C, 464°F

LEDs	(Continue	ed)		Packa	ige (see	above)
Part No.	Cross Ref.	Pkg.	Description	1	10	25
273412CH	NTE3028	_	Infrared, PN, GAAS	. \$4.99	\$4.87	\$4.75

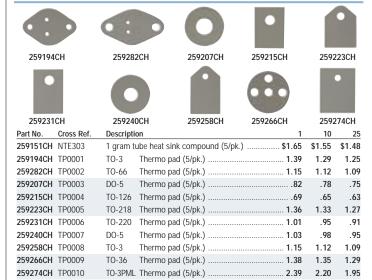
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Part No.	Cross Ref.	Pkg.	Description	1	10	25
273421CH	NTE3032	TO-18	NPN phototransistor detector	\$11.15	\$10.84	\$10.52
273439CH	NTE3034A	_	Phototransistor detector	1.59	1.55	1.51
273447CH	NTE3037	TO-18	NPN phototransistor detector	4.35	4.26	4.16
260380CH	NTE3040	DIP-6	NPN transistor output, 1.5V @ 10mA	1.75	1.68	1.61
260398CH	NTE3041	DIP-6	NPN transistor output, 1.15V @ 10mA	1.75	1.69	1.63
273455CH	NTE3042	DIP-6	NPN transistor	1.65	1.60	1.55
260401CH	NTE3044	DIP-6	NPN darl. trans. output, 1.15V @ 10mA	2.35	2.25	2.19
273463CH	NTE3045	DIP-6	Silicon darlington	2.45	2.39	2.32
260419CH	NTE3047	DIP-6	Triac driver output, 1.15V @ 10mA	2.45	2.04	1.95
273471CH	NTE3048	DIP-6	Triac driver output	3.19	2.89	2.39
273498CH	NTE3083	DIP-6	Optoisolator transistor	2.45	2.39	2.32
273501CH	NTE3084	DIP-6	NPN darlington transistor	2.39	2.33	2.26
273519CH	NTE3086	DIP-8	Dual transistor	3.75	3.66	3.57
273527CH	NTE3089	DIP-6	AC input, transistor	4.29	3.72	3.63
273535CH	NTE3090	DIP-6	Schmitt trigger	3.65	3.57	3.48
273543CH	NTE3098	DIP-4	NPN transistor output	2.09	2.02	1.78
273607CH	NTE3221	DIP-16	4-channel, NPN transistor output	3.35	3.17	2.98
273560CH	NTE3100	_	Opto interrupter	5.39	5.14	4.67

IC 200	ckets		Packa	ige (see	above	
Part No.	Cross Ref.	Pkg.	Description 1	10	25	
272727CH	NTE209	TO-3	Socket, trans, power, 2/pk \$2.09	\$2.04	\$1.99	
273869CH	NTE409	DIP-14	14-pin DIP socket, 2/pk 1.25	1.17	1.06	
259178CH	NTE416	DIP-16	16-pin DIP socket 2.09	1.85	1.60	
259186CH	NTE423	DIP-8	8-pin DIP socket 1.10	1.06	1.02	
273885CH	NTE435P6	DIP-6	6-pin DIP socket, 2/pk 1.39	1.36	1.32	
Inacida	.1 1/:1	_				

insuia	itor Kits	5	Packa	age (see	above)
Part No.	Cross Ref.	Pkg.	Description 1	10	25
273877CH	NTE413	TO-3	Insulator kit, 2/pk \$1.39	\$1.29	\$1.20
259160CH	NTE422	TO-220	Insulator kit	.97	.93
273893CH	NTE439	D05/T048	Insulator kit, stud55	.54	.47

#### **NTE Hardware**

IC Cooksto



261260CH NTE8242

### **Optoisolators**















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DIP-4	DI	P-6	DIP-8	DIP-16	TO-1	8
Part No.	Cross Ref.	Pkg.	Description	1	10	100
40985CH	4N25	DIP-6	Diode, NPN phototr	ansistor \$.22	\$.18	\$.17
41005CH	4N26	DIP-6	Diode, NPN phototr	ansistor	.22	.18
144240CH	4N27	DIP-6	Diode, NPN phototra	ansistor24	.191	.185
41013CH	4N28	DIP-6	Diode, NPN phototr	ansistor46	.372	.282
277421CH	4N29	DIP-6	General purpose ph	otodarlington26	.21	.193
277456CH	4N30	DIP-6	General purpose ph	otodarlington26	.216	.185
320565CH	4N31	DIP-6	General purpose ph	otodarlington30	.273	.235
41021CH	4N32	DIP-6	Diode, NPN photoda	arlington26	.24	.21
41030CH	4N33	DIP-6	Diode, NPN photoda	arlington	.24	.22
41056CH	4N35	DIP-6	Diode, NPN phototr	ansistor24	.216	.213
277464CH	4N36	DIP-6		ototransistor20	.18	.17
320371CH	4N37	DIP-6	Genral purpose pho	totransistor27	.264	.227
277481CH	4N38	DIP-6		ransistor53	.46	.39
277499CH	4N39	DIP-6	Photo SCR optocou	pler	.82	.74
277501CH	4N40	DIP-6		pler	.84	.76
277510CH	6N135	DIP-8	• .	or optocoupler54	.44	.36
42471CH	6N136	DIP-8	• .	or optocoupler65	.55	.49
113911CH	6N137	DIP-8		tocoupler	.60	.496
42489CH	6N138	DIP-8		gain split darlington67	.57	.462
113929CH	6N139	DIP-8	0 1 0 0	ain darlington65	.55	.445
320389CH	CNY17-1	DIP-6		ansistor26	.225	.153
320397CH	CNY17-2	DIP-6		ansistor27	.191	.151
320400CH	CNY17-3	DIP-6	- '	ansistor26	.191	.153
320418CH	CNY17-4	DIP-6		ansistor26	.191	.153
277561CH	H11A1	DIP-6		ototransistor27	.22	.20
18825CH	H11AA1	DIP-6		PN phototransistor51	.383	.291
277587CH	H11A2	DIP-6		ototransistor30	.21	.17
320434CH	H11AA2	DIP-6		sistor optocoupler35	.286	.26
277595CH	H11A3	DIP-6		ototransistor34	.26	.21
320442CH	H11AA3	DIP-6		sistor optocoupler34	.274	.249
281201CH	H11A4	DIP-6		ototransistor	.30	.23
320451CH	H11AA4	DIP-6		sistor optocoupler52	.50	.34
320426CH 320573CH	H11A5 H11B1	DIP-6		totransistor	.183	.168
320573CH 320581CH	H11B2	DIP-6		tocoupler	.344	.261
320602CH	H11B3	DIP-6		tocoupler48	.432	.403
114016CH	H11C1	DIP-6		pler	.432	.403
18833CH	H11C3	DIP-6		pler	.76	.57
114008CH	H11C3	DIP-6		pler	.70	.53
277608CH	H11C6	DIP-6		pler	.75	.61
320493CH	H11D1	DIP-6		ransistor	.382	.361
320473CH 320514CH	H11D1	DIP-6		ransistor	.58	.438
320522CH	H11D3	DIP-6		ransistor	.58	.44
113996CH	H11F1	DIP-6		1.79	1.52	1.14
320186CH	H11F2	DIP-6		olers 1.75	1.54	1.18
320194CH	H11F3	DIP-6		olers 1.59	1.30	1.25
277712011	111113	DID 4	High voltage photog		1.30	20

DIP-6 High-voltage photodarlington .......51 .47

High-voltage photodarlington ................................62

Schmitt trigger output photocoupler ... 1.09

High speed logic optocoupler ...... 2.05

High speed logic optocoupler ..... 1.89

Low power transistor output .................................99

Phototransistor optocoupler .................................42

Hermetic phototransistor optocoupler 7.75

Dual channel NPN phototransistor ...... .56

Bilateral triac driver .......56

Bilateral triac driver ...... \$0.77 .68

#### **Optoisolators** (Continued)

Part No.	Cross Ref.	Pkg.	Description 1	10	100
277763CH	MOC3012	DIP-6	Random phase triac driver \$.76	\$.58	\$.44
277780CH	MOC3020	DIP-6	Random phase triac driver54	.41	.31
95038CH	MOC3021	DIP-6	Bilateral triac driver	.39	.29
277801CH	MOC3022	DIP-6	Random phase triac driver49	.45	.38
277819CH	MOC3023	DIP-6	Random phase triac driver51	.47	.39
26294CH	MOC3031	DIP-6	Zero crossing triac driver \$1.06 .72	.64	.58
113953CH	MOC3032	DIP-6	Zero crossing triac driver	.55	.52
277827CH	MOC3033	DIP-6	Zero crossing triac driver	.66	.60
277835CH	MOC3041	DIP-6	Zero crossing triac driver	.61	.52
113961CH	MOC3042	DIP-6	Zero crossing triac driver	.58	.50
277843CH	MOC3043	DIP-6	Zero crossing triac driver	.53	.46
277860CH	MOC3051	DIP-6	Random phase triac driver	.66	.60
277894CH	MOC3052	DIP-6	Random phase triac driver	.82	.79
277915CH	MOC3061	DIP-6	Zero crossing phototriac driver	.59	.50
277931CH	MOC3062	DIP-6	Zero crossing phototriac driver80	.68	.55
133874CH	MOC3063	DIP-6	Zero crossing triac driver 1.25	1.06	.80
320629CH	MOC3082	DIP-6	Zero crossing optoisolator 1.20	1.01	.88
320611CH	MOC3083	DIP-6	Zero crossing optoisolator	.79	.73
320653CH	PS2501-1	DIP-4	Single transistor photocoupler20	.19	.185
320661CH	PS2501-2	DIP-8	Single transistor photocoupler51	.459	.418
160338CH	PS2501-4	DIP-16	Photo darlington & transistor/detector 1.09	1.02	.88
320688CH	PS2502-1	DIP-4	Darlington photocoupler41	.39	.353
320696CH	PS2502-2	DIP-8	Darlington photocoupler 1.18	.96	.87
160362CH	PS2502-4	DIP-16	Photo darlington & transistor/detector 1.75	1.61	1.39
320709CH	PS2505-1	DIP-4	High isolation voltage photocoupler33	.32	.302
320717CH	PS2505-2	DIP-8	High isolation voltage photocoupler	.76	.69
320725CH	PS2505-4	DIP-16	High isolation voltage photocoupler1.29	1.18	1.06
320750CH	PS2506-1	DIP-4	High isolation voltage photocoupler54	.51	.462
320768CH	PS2506-2	DIP-8	High isolation voltage photocoupler 1.09	1.01	.92
320776CH	PS2506-4	DIP-16	High isolation voltage photocoupler 2.15	1.83	1.67
320784CH	PS2532-1	DIP-4	High collector to high emitter volt. photocoupler54	.486	.437
320792CH	PS2532-2	DIP-8	High collector to high emitter volt. photocoupler 1.19	1.14	1.04
320805CH	PS2532-4	DIP-16	High collector to high emitter volt. photocoupler 2.25	1.95	1.75
320813CH	PS2561-1	DIP-4	High isolation voltage photocoupler23	.22	.21
320821CH	PS2561-2	DIP-8	High isolation voltage photocoupler	.71	.68
320830CH	PS2561-4	DIP-16	High isolation voltage photocoupler 2.28	2.05	1.85

### **Slotted Optical Switches**





4-pin w/o tab



Part No.	Cross Ref.	Pkg.	Description	1 10	100
114091CH	H21A1	4-pin w/ tab	Single channel slotted interrupter \$.4	59 \$.64	\$.554
278011CH	H21A2	4-pin w/ tab	Phototransistor optical interrupter9	99 .71	.58
320901CH	H21A3	4-pin w/ tab	Phototransistor optical switch	70 .61	.47
320928CH	H21A6	4-pin w/ tab	Phototransistor optical switch	79 .64	.58
278070CH	H21B1	4-pin w/ tab	Photodarlington optical interrupter	.78	.71
278088CH	H21B2	4-pin w/ tab	Photodarlington optical interrupter 1.0	.79	.74
278096CH	H21B3	4-pin w/ tab	Photodarlington optical interrupter 1.3	35 1.19	1.09
321007CH	H21B6	4-pin w/ tab	Photodarlington optical switch	92 .75	.68
320848CH	H21L0B	5-pin w/ tab	OPTOLOGIC® interrupter slotted switch 1.0	.91	.81
320856CH	H21LTB	5-pin w/ tab	OPTOLOGIC® interrupter slotted switch 1.0	.91	.76
320864CH	H21LTI	5-pin w/ tab	OPTOLOGIC® interrupter slotted switch 1.0	.91	.81
114104CH	H22A1	4-pin w/o tab	Slotted optical switch	51 .51	.462
278029CH	H22A2	4-pin w/o tab	Slotted optical switch 1.	15 1.05	.93
278045CH	H22A3	4-pin w/o tab	Slotted optical switch	74 .62	.504
278109CH	H22B1	4-pin w/o tab	Photodarlington optical interrupter	.61	.56
278117CH	H22B2	4-pin w/o tab	Photodarlington optical interrupter	.71	.64
320872CH	H22L0B	5-pin w/o tab	OPTOLOGIC* interrupter slotted switch 1.0	.85	.80
320881CH	H22L0I	5-pin w/o tab	OPTOLOGIC® slotted switch 1.0	.92	.80
196058CH	ITR-8105	4-pin w/o tab	Slotted optical switch	48 .42	.38
321120CH	MOC70P1	4-pin w/o tab	Phototransistor optical switch	90 .73	.66
321138CH	QVE11233	4-pin w/o tab	Slotted optical switch	.52	.47



.42

.40

.61

.48

.50

1.49

1.39

.63

.47

.345

.388

.75

.52

277712CH

277721CH

277747CH

113988CH

320207CH

320215CH

320637CH

320645CH

138069CH

320477CH

320485CH

24918CH

26278CH

95020CH

H11G1

DIP-6

DIP-6

DIP-6

DIP-6

DIP-6

DIP-6

DIP-6

DIP-6

TO-18

DIP-8

ISP817-3 DIP-4

MOC3010 DIP-6

MOC3011 DIP-6

H11G2

H11G3

H11L1

H11L2

H11L3

H11N1

H11N2

MCT2

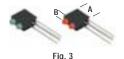
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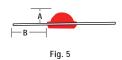












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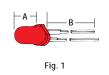
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	Mfr. Cross		Emitting	Lens/Feature	LED	Diameter		nsions	Lead	Typical	Typical	Wavelength			cing	
Part No.	Ref. No.	Fig.	Color	Description	-	inch/mm	Α"	В"	Spacing	Vf @ If (mA)	mcd @ mA	nm	1	10	100	1000
333219CH	LY12340	1	Yellow		ı T1	.119/3	0.13	0.98	0.10	1.7 @ 20	6.5 @ 10	585	*	\$.08	\$.063	\$.06
334211CH	LA16BY	2	Yellow	Yellow diffused PCB mount indicators		.119/3	0.29	0.18	0.10	1.7 @ 20	12 @ 10	585	.30	.284	.146	.102
34657CH	LY2040*	1	Yellow	Yellow diffused (XC209Y)	ı T1	.119/3	0.16	0.68	0.08	2.3 @ 20	15 @ 10	585	*	.13	.11	.075
333884CH	UT6331-41	1	Yellow		T1	.119/3	0.17	0.98	0.10	2.1 @ 20	24 @ 10	589	*	.088	.069	.049
333294CH	LUY2643-1	1	Yellow		T1	.119/3	0.13	0.98	0.10	1.7 @ 20	350 @ 20	595	*	.16	.152	.144
333307CH	LUY2643-1	1	Yellow		T1	.119/3	0.13	0.98	0.10	1.7 @ 20	900 @ 20	595	.26	.174	.128	.109
206480CH	LVY2041	1	Yellow	Yellow transparent	T1	.119/3	0.17	0.69	0.08	2.3 @ 20	450 @ 20	595	*	.14	.12	.10
235424CH	LA45B/2I	3	Red	Red diffused (dual)	T1	.119/3	0.40	0.18	0.10	1.7 @ 20	12 @ 10	630 -	.29 .99	.89	.71	.53
136282CH	LA44B/2I	3	Red	Red diffused (dual)	T1	.119/3	0.38	0.17	0.10	2.3 @ 20	12 @ 10	630	.49	.45	.39	.29
333868CH	UT6341R-41	1	Hi-eff Red	Orange diffused	T1	.119/3	0.17	1.00	0.10	2.1 @ 20	35 @ 20	630	*	.098	.06	.045
333366CH	LHRF2643-1	1	Red		T1	.119/3	0.13	0.98	0.10	1.5 @ 20	300 @ 20	630	*	.174	.152	.144
333374CH	LURF2643-1	1	Red	Water clear	T1	.119/3	0.13	0.98	0.10	1.5 @ 20	550 @ 20	630	*	.158	.153	.146
333198CH	LE12340	1	Hi-eff Red	Orange diffused	T1	.119/3	0.13	0.98	0.10	1.7 @ 20	6.5 @ 10	635	*	.079	.064	.057
333876CH	UT6314R-41	1	Hi-eff Red	Red diffused	T1	.119/3	0.17	1.00	0.10	2.1 @ 20	12 @ 20	635	.27	.213	.102	.066
333171CH	HLMP-K155-JV	1	Red	Red clear	T1	.119/3	0.19	1.04	0.10	1.6 @ 1	3.0 @ 1	660	*	.079	.078	.057
333850CH	UT6371-41-M1	1	Red	Red diffused	T1	.119/3	0.17	0.98	0.10	1.7 @ 20	63 @ 20	660	*	.098	.064	.061
333251CH	LSR2643-1	1	Red	Water clear	T1	.119/3	0.13	0.98	0.10	1.5 @ 20	120 @ 20	660	.20	.196	.128	.109
333260CH	LHR2643-1	1	Red	Water clear	<b>T</b> 1	.119/3	0.13	0.98	0.10	1.5 @ 20	300 @ 20	660	.28	.19	.152	.144
206498CH	LHR2041	1	Red	Red transparent	T1	.119/3	0.17	0.69	0.08	2.0 @ 20	350 @ 20	660	*	.15	.12	.09
333278CH	LUR2643-1	1	Red	Water Clear	T1	.119/3	0.13	0.98	0.10	1.5 @ 20	550 @ 20	660	*	.16	.154	.147
334203CH	LA16B/H	2	Red	Red diffused PCB mount indicators	T1	.119/3	0.29	0.18	0.10	1.7 @ 20	4.2 @ 10	697	.30	.284	.146	.102
94529CH	LH2040*	1	Red	Red diffused (XC209RB)	T1	.119/3	0.18	1.04	0.07	2.3 @ 20	4.5 @ 10	697	*	.19	.15	.12
114673CH	LH2043*	1	Red	Water clear (BR209)	T1	.119/3	0.14	0.98	0.07	2.3 @ 20	12 @ 10	697	*	.19	.15	.12
94553CH	LHG2062	1	Red/Green	White diffused bi-color/bi-state1	T1	.119/3	0.18	1.06	0.08	2.3 @ 20	3 & 15 @ 10	697/565	.29	.25	.21	.16
333340CH	LHE2643	1	Orange	Water clear	T1	.119/3	0.13	0.98	0.10	1.7 @ 20	700 @ 20	620	*	.158	.144	.137
333358CH	LUE2643	1	Orange	Water clear	T1	.119/3	0.13	0.98	0.10	1.7 @ 20	900 @ 20	620	.21	.19	.154	.147
333391CH	UT6341-41	1	Orange	Orange diffused	T1	.119/3	0.17	0.94	0.10	2.1 @ 20	35 @ 20	630	.22	.182	.084	.068
333833CH	LI12340	1	Orange	Red diffused	T1	.119/3	0.16	0.98	0.10	1.7 @ 20	6.5 @ 10	635	*	.098	.076	.054
202472CH	MVL-301HR	1	Orange Red	Red diffused	T1	.119/3	0.14	1.12	0.10	2.0 @ 20	9.0 @ 10	640	*	.19	.15	.11
34606CH	LSG2040*	1	Green		T1	.119/3	0.13	1.05	0.08	2.2 @ 20	15 @ 10	560	*	.15	.11	(.08)
333201CH	LG12340	1	Green		T1	.119/3	0.13	0.98	0.10	1.7 @ 20	9.6 @ 10	565	*	.08	.063	.06
211087CH	LG2040	1	Green	Green diffused	T1	.119/3	0.13	1.10	0.10	2.1 @ 20	12.6 @ 10	565	*	.11	.094	.071
334220CH	LA16B/G	2	Green	Green diffused PCB mount indicators	T1	.119/3	0.29	0.18	0.10	1.7 @ 20	15 @ 10	565	.30	.284	.146	.102
235416CH	LA45B/2G	3	Green		T1	.119/3	0.40	0.18	0.10	1.7 @ 20	15 @ 10	565 <del>-\$1</del>	29 .99	.89	.71	.53
136274CH	LA44B/2G	3	Green	` '	T1	.119/3	0.38	0.17	0.10	2.3 @ 20	15 @ 10	565	.49	.45	.39	.29
333315CH	MV7441-JV	1	Green		T1	.119/3	0.13	0.98	0.10	1.7 @ 20	120 @ 20	565	*	.17	.145	.124
175679CH	LVG2041	1	Green	Green transparent	T1	.119/3	0.17	0.69	0.08	2.2 @ 20	129 @ 20	565	*	.15	.11	.08
114681CH	LVG2043*	1	Green	· .	T1	.119/3	0.14	0.98	0.07	2.2 @ 20	129 @ 20	565	*	.09	.07	.055
137411CH	LVB2040	1	Blue	` ′	! T1	.119/3	0.21	0.98	0.10	4.8 @ 20	10 @ 20	430	2.49	2.25	1.95	1.69
333382CH	UT63B1-41-M1A2		Blue		T1	.119/3	0.17	0.98	0.10	3.8 @ 20	50 @ 20	466	.75	.714	.68	.66
34825CH	LY3330*	1	Yellow		T1 3/4		0.30	0.82	0.07	2.3 @ 20	12 @ 10	585	*	.19	.15	.12
104264CH	LA93B/Y-1	4	Yellow	l ' '	T1 3/4		0.35	0.89	0.08	2.3 @ 20	25 @ 10	585	.35	.316	.256	.219
334406CH	LY9033	5	Yellow		T1 3/4	.197/5	0.05	0.27	0.03	1.7 @ 20	30 @ 10	585	*	.176	.104	.099
175695CH	LVY3333*	1	Yellow			.197/5	0.30	1.07	0.08	2.1 @ 20	60 @ 10	585	*	.19	.15	.12
334107CH	UT1831-81-S	1	Yellow			.197/5	0.34	0.98	0.10	2.1 @ 20	16.4 @ 20	589	*	.098	.064	.061
333964CH	UT1834-81-S	1	Yellow			.197/5	0.34	0.98	0.10	2.1 @ 20	55.8 @ 20	589	*	.098	.069	.049
334385CH	UT1833-81-M181	1	Yellow			.197/5	0.34	0.98	0.10	2.1 @ 20	450 @ 20	590	*	.098	.064	.061
333622CH	LHY3330/HO	1	Yellow			.197/5	0.34	0.98	0.10	1.7 @ 20	350 @ 20	595	.31	.30	.192	.154
334377CH	UT1841R-81	1	Hi-eff Red			.197/5	0.34	0.98	0.10	2.1 @ 20	23.1 @ 20	630	*	.098	.064	.061
334060CH	UT1841R-81-S	1	Hi-eff Red			.197/5	0.34	0.94	0.10	2.1 @ 20	23.1 @ 20	630	.27	.213	.102	.066
333921CH	UT1844R-81-S	1	Hi-eff Red			.197/5	0.34	0.98	0.10	2.1 @ 20	78.8 @ 20	630	*	.098	.069	.049
334271CH	LA93B/I	4	Hi-eff Red			.197/5	0.34	0.75	0.10	1.7 @ 20	25 @ 10	635	.30	.284	.146	.115
34711CH	LEG3362*	1	Red/Green	-		.197/5	0.30	1.01	0.10	2.3 @ 20	7.5 & 8 @ 20	635/565	.33	.28	.22	.113
333972CH	UT1871-81-M1	1	Red			.197/5	0.34	0.98	0.09	1.7 @ 20	7.5 & 6 @ 20	660	.33	.20	.064	.061
334115CH	UT1872-81-M1	1	Red			.197/5	0.34	1.00		1.7 @ 20	75@ 20 75 @ 20		.25	.225		.08
334115CH 333454CH	LSR3330/HO/A	1	Red			.197/5	0.34	1.00	0.10	1.7 @ 20	75 @ 20 140 @ 20	660	.25	.225	.122	.08
333454CH	LHR3330/HO/A	1	Red			.197/5			0.10	1.5 @ 20	220 @ 20	660	.23	.14	.126	.104
JJJ402UN	LI INSSSUITIOIA	1	ricu	rea annuseu	1 1 1 9/4	.17773	0.34	0.70	0.10	1.5 @ 20	220 @ 20	000	.23	.217	. 140	. 104

<sup>\*10</sup> pcs. in LEDs & LED Mounting Hardware cabinet kit, pg 61 1 Reverse polarity to change color

More LEDs listed on pages 56 & 57



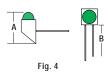




Fig. 6

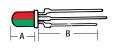


Fig. 7





EXCLUSIVE

**Quantity SAVE** 

NEW

JAMECO ValuePro Standard Output LEDs (Continued)

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\* Prepackaged: order in increments of 10, 100 or 1000

				par EEDO (continuea)									incre	ements of	10, 100	or 1000
	Mfr. Cross		Emitting	Lens/Feature	LED	Diameter		nsions	Lead	Typical	Typical	Wavelength			cing	
Part No.	Ref. No.	Fig.	Color	Description	Size	inch/mm	A"	B"	Spacing	Vf @ If (mA)	mcd @ mA	nm	1	10	100	1000
334035CH	UT1871-81-UR-P18	1	Red	Red diffused	T1 3/ <sub>4</sub>	.197/5	0.34	0.94	0.10	1.9 @ 20	250 @ 20	660	*	\$.098	\$.076	\$.054
333420CH	LSR3331	1	Red	Red transparent	T1 3/ <sub>4</sub>	.197/5	0.34	0.98	0.10	1.5 @ 20	550 @ 20	660	*	.118	.08	.072
333489CH	LUR3330/HO/A	1	Red	Red diffused	T1 3/4	.197/5	0.34	0.98	0.10	1.5 @ 20	380 @ 20	660	.20	.174	.146	.104
333497CH	LSR13233	1	Red	Water clear	T1 3/4	.197/5	0.35	0.98	0.10	1.5 @ 20	720 @ 20	660	*	.176	.098	.085
94511CH	LH3330	1	Red	Red diffused (XC556RB)	T1 3/ <sub>4</sub>	.197/5	0.31	0.81	0.08	2.3 @ 20	3 @ 10	697	*	.17	.13	.10
333999CH	LH3310	1	Red	Red diffused		.197/5	0.35	1.00	0.10	1.7 @ 20	4.5 @ 10	697	.27	.213	.102	.066
104248CH	LA93B/H-1*	4	Red	Red diffused (XC410R)		.197/5	0.35	0.89	0.08	2.3 @ 20	6.5 @ 10	697	*	.23	.19	.17
34745CH	LH3333	1	Red	Water clear (XC554R)	T1 3/ <sub>4</sub>	.197/5	0.30	1.00	0.08	2.3 @ 20	7.5 @ 10	697	*	.15	.11	.065
334174CH	LHI3360	6	Red/Orange	Red diffused bi-color/solid state	T1 3/4	.197/5	0.34	0.98	0.10	1.7 @ 20	2.0 & 3.0 @ 10	697/635	.25	.213	.128	.092
334182CH	LGH3362	6	Red/Green	White diffused bi-color/solid state	T1 3/4	.197/5	0.34	0.98	0.10	1.7 @ 20	2.0 & 8.0 @ 10	697/565	.23	.222	.146	.104
34673CH	LHG3392*	7	Red/Green	White diff. bi-color/tri-state	T1 3/4	.197/5	0.30	1.02	0.03	2.3 @ 20	3 & 12 @ 10	697/565	.24	.22	.20	.14
334051CH	UT1841-81-S	1	Orange	Orange diffused		.197/5	0.34	0.98	0.10	2.1 @ 20	23.1 @ 20	630	.22	.176	.102	.066
333243CH	UT2462-24-D51	7	Orange/Green	White diff bi-color/tri-state		.197/5	0.30	0.80	0.10	2.1 @ 20	11.7 @ 20	630/572	.23	.219	.119	.104
107393CH	LE3330	1	Orange Red	Orange diffused (XC556A)		.197/5	0.30	1.02	0.08	2.3 @ 20	12 @ 10	635	*	.11	.07	.06
333235CH	LI13530	1	Orange	Red diffused		.197/5	0.34	0.98	0.10	1.7 @ 20	15 @ 10	635	*	.12	.103	.065
334001CH	LI3330	1	Orange	Orange diffused		.197/5	0.35	1.00	0.10	1.7 @ 20	24 @ 10	635	*	.098	.069	.049
333913CH	LE3331	1	Orange	Orange transparent	1 '	.197/5	0.34	0.98	0.10	1.7 @ 20	75 @ 10	635	*	.118	.069	
34761CH	LG3330*	1	Green	Green diffused (XC556G)		.197/5	0.31	0.79	0.09	2.3 @ 20	12 @ 10	565	*	.15	.14	.10
334086CH	LG13740	1	Green	Green diffused		.197/5	0.34	0.98	0.10	1.7 @ 20	20 @ 20	565	*	.098	.064	.061
333227CH	LG13530	1	Hi-eff Green	Green diffused		.197/5	0.34	0.98	0.10	1.7 @ 20	25 @ 10	565	*	.12	.102	.065
104256CH	LA93B/G-1*	4	Green	Green diffused (XC410G)		.197/5	0.35	0.89	0.08	2.3 @ 20	30 @ 10	565	*	.23	.19	.17
11359CH	LG3333*	1	Green	Water clear (BG5704)		.197/5	0.30	1.04	0.07	2.3 @ 20	100 @ 20	565	*	.22	.20	.16
333956CH	LG33331	1	Green	Green transparent		.197/5	0.34	0.98	0.10	1.7 @ 20	150 @ 10	565	*	.098	.064	.061
333534CH	LVG3333/S46	1	Green	Water Clear			0.34	0.98	0.10	1.7 @ 20	220 @ 20	565	.23	.222	.147	.104
		1				.197/5			0.10	1.7 @ 20	550 @ 20		*			
333542CH	LVG3833		Green	Water Clear		.197/5	0.34	0.98				565		.16	.149	.138
334393CH	UT1821-81-S	1	Green	Green diffused		.197/5	0.35	1.00	0.10	2.1 @ 20 2.1 @ 20	20 @ 20	572	*	.098	.064	.061
333948CH	UT1824-81-S	1	Green	Water Clear		.197/5	0.34	0.98	0.10		68.1 @ 20	572	*	.108	.069	.049
138691CH	LVB3330	1	Blue	Blue diffused		.197/5	0.34	0.98	0.10	4.8 @ 20	10 @ 20	430	2.15	2.04	1.95	1.79
334457CH	LSBI2640	1	Blue	Blue diffused	III 3/4	.197/5	0.17	0.98	0.10	3.8 @ 20	50 @ 20	430	.75	.73	.69	.66
137613CH	LSBI3333	1	Blue	Water clear		.197/5	0.34	0.98	0.08	3.8 @ 20	160 @ 20	430	2.29	2.04	1.63	1.22
134332CH	LT18B3-81UR	1	Blue	Water clear (383UBC)		.197/5	0.30	0.93	0.10	3.8 @ 20	350 @ 20	428	2.65	2.45	2.25	1.95
119634CH	LHR3930	1	Red	Red diffused Jumbo (LT9952L)		.315/8	0.44	0.84	0.07	2.0 @ 20	100 @ 20	660	.23	.20	.15	.13
137621CH	LVG3930	1	Green	Green diffused Jumbo	_	.315/8	0.43	1.04	0.07	2.3 @ 20	40 @ 20	565	.23	.211	.192	.122
98992CH	LY3630	1	Yellow	Yellow diff. XJumbo (XC10Y)		.394/10		1.04	0.08	2.3 @ 20	15 @ 20	585	.29	.26	.21	.16
354790CH	MCDL-833YD/H1090	1	Yellow	Yellow diffused		.394/10		1.00	0.10	2.1 @ 30	25 @ 20	590	.66	.58	.50	.47
138683CH	LHR3630	1	Red	Red diffused XJumbo (XC10R)	T3 1/ <sub>4</sub>			1.04	0.10	2.0 @ 20	100 @ 20	660	.29	.26	.22	.18
354802CH	MCDL-833SRD/H1090	1	Super Red	Red diffused	1 ,4	.394/10		1.00	0.10	1.8 @ 20	200 @ 20	660	.76	.67	.52	.47
354781CH	MCDL-833ED/H1090	1	Hi-eff Red	Red diffused	T3 1/ <sub>4</sub>			1.00	0.10	2.0 @ 30	25 @ 20	635	.66	.58	.50	.47
354773CH	MCDL-833DG/H1090	1	Green	Green diffused		.394/10		1.00	0.10	2.2 @ 30	20 @ 20	570	.72	.59	.576	.469
98984CH	LVG3630	1	Green	Green diffused XJumbo (XC10G)	T3 <sup>1</sup> / <sub>4</sub>			1.07	0.08	2.3 @ 20	40 @ 20	565	.27	.26	.19	.13
94561CH	LFG3360	1	Green	Green diff./blinking (XC5408)†	T1 3/ <sub>4</sub>		0.30	1.05	0.08	3-12V	17	565	.59	.53	.48	.43
351038CH	MCDL-517GD-F	1	Green	Green diffused blinking		.197/5	0.34	1.00	0.10	2.0 @ 30	15 @ 20	565	.51	.419	.289	.278
351046CH	MCDL-517YD-F	1	Yellow	Yellow diffused blinking	T1 3/ <sub>4</sub>		0.34	1.00	0.10	2.1 @ 30	20 @ 20	585	.51	.419	.289	.278
351054CH	MCDL-517AD-F	1	Amber	Amber diffused blinking	T1 3/4	.197/5	0.34	1.00	0.10	2.1 @ 30	20 @ 20	585	.51	.419	.289	.278
351011CH	MCDL-517ED-F	1	Hi-eff Red	Red diffused blinking	T1 3/4	.197/5	0.34	1.00	0.10	1.7 @ 40	20 @ 20	635	.51	.419	.354	.278
351020CH	MCDL-517ED-EF	1	Orange	Orange diffused blinking	T1 3/4	.197/5	0.34	1.00	0.10	2.1 @ 15	20 @ 20	635	.51	.419	.354	.278
351062CH	MCDL-517SRD-F	1	Super Red	Red diffused blinking	T1 3/4	.197/5	0.34	1.00	0.10	1.8 @ 20	200 @ 20	660	.57	.469	.323	.31
351071CH	MCDL-517LRD-F	1	Super Red	Red diffused blinking	T1 3/4	.197/5	0.34	1.00	0.10	1.8 @ 20	300 @ 20	660	.57	.469	.323	.31
351097CH	MCDL-517URC-U14-F	1	Super Red	Water clear blinking		.197/5	0.34	1.00	0.10	1.8 @ 20	300 @ 20	660	.57	.469	.323	.31
34690CH	LFH3360*	1	Red	Red diffused/blinking (XC5410)†		.197/5	0.30	0.94	0.07	3-12V	2.8	697	.49	.45	.39	.35
138860CH	LFH3363	1	Red	Water clear/blinking†		.197/5	0.35	1.06	0.10	3-12V	9	697	.49	.44	.35	.26
351003CH	MCDL-517HD-F	1	Bright Red	Red diffused blinking		.197/5	0.34	1.00	0.10	2.1 @ 15	5.0 @ 20	700	.52	.47	.413	
104889CH	LEG5292††	8	Red/Green	White diff. bi-color rectangular	2 x 5	-	0.27	1.02	0.08	2.3 @ 20	6/6 @ 10	695/565	*	.21	.179	
333796CH	UT7231-81	9	Yellow	Yellow diffused rectangular	2.3 x 7.1	-	0.29	0.94	0.10	2.1 @ 20	5.0 @ 20	585	.29	.241	.119	.085
	UT7241-81	9	Hi-eff Red	Orange diffused rectangular	2.3 x 7.1		0.29	0.94	0.10	2.1 @ 20	7.2 @ 20	635	*	.127	.08	.074
	FDs & LFD Mounting			0	_							ing hardware			.00	

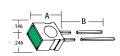
<sup>\*10</sup> pcs. in LEDs & LED Mounting Hardware cabinet kit, pg 61

<sup>††</sup> For mounting hardware see pg 61



<sup>†</sup> Voltage shown is operating voltage range; no current limiting resistor required.







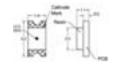








Fig. 10



Fig. 14

Fig. 15

### JAMECO ValuePro

### Standard Output LEDs

Call for OEM PRICING – we carry major manufacturers.

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\* Prepackaged: order in increments of 10, 100 or 1000

**Quantity SAVE** 

	Mfr. Cross		Emitting	Lens/Feature	LED	Diameter	Dimer	nsions	Lead	Typical	Typical	Wavelength		Pric	ing	
Part No.	Ref. No.	Fig.	Color	Description	Size	inch/mm	A"	В"	Spacing	Vf @ If (mA)	mcd @ mA	nm	1	10	100	1000
333770CH	UT7241R-81	9	Hi-eff Red	Red diffused rectangular	2.3 x 7.1	¦ –	0.29	0.94	0.10	2.1 @ 20	7.2 @ 20	635	*	\$.12	\$.102	\$.074
333788CH	UT7222-81	9	Green	White diffused rectangular	2.3 x 7.1	¦ –	0.29	0.94	0.10	2.1 @ 20	6.1 @ 20	567	.29	.241	.119	.085
333702CH	UT7321-81	10	Green	Green diffused rectangular	3.2 x 6.2	! -	0.28	0.80	0.10	2.1 @ 20	8.8 @ 20	567	.23	.207	.146	.105
333711CH	UT7331-81	10	Yellow	Yellow diffused rectangular	3.2 x 6.2	-	0.28	0.80	0.10	2.1 @ 20	7.2 @ 20	585	.25	.238	.158	.112
333690CH	UT7341R-81	10	Orange	Red diffused rectangular	3.2 x 6.2	i –	0.28	0.80	0.10	2.1 @ 20	10.1 @ 20	635	.23	.207	.146	.105
94545CH	LG25030††	10	Green	Green diff. rect. (XC57124G)	3.5 x 6	. –	0.26	1.06	0.08	2.3 @ 20	5.2 @ 20	565	*	.19	.16	.15
333745CH	UT5221-81	9	Green	Green diffused rectangular	5.2 x 7.8	_	0.30	1.03	0.10	2.1 @ 20	7.1 @ 20	572	*	.088	.056	.053
333753CH	UT5231-81	9	Yellow	Yellow diffused rectangular	5.2 x 7.8	i –	0.30	1.03	0.10	2.1 @ 20	5.9 @ 20	589	*	.108	.076	.054
333737CH	UT521R-81	9	Hi-eff Red	Red diffused rectangular	5.2 x 7.8	¦ –	0.30	1.03	0.10	2.1 @ 20	8.3 @ 20	630	*	.098	.076	.054
334650CH	UB3541R-11 NRAK	11	Orange	0.35" lightbar	8.9 x 10.1	¦ –	_	_	0.10	2.1 @ 20	7.8 @ 10	635	.80	.70	.48	.408
334668CH	UB3531-11 NYAK	11	Yellow	0.35" lightbar	8.9 x 10.1	¦ –	_	_	0.10	2.1 @ 20	5.5 @ 10	585	.83	.70	.48	.401
334676CH	UB3521-11 NGAK	11	Green	0.35" lightbar	8.9 x 10.1	¦ –	_	_	0.10	2.1 @ 20	6.8 @ 10	567	.83	.70	.48	.396
334326CH	LG-150Y-DT	12	Yellow	White diffused SMD 1206	SMD1206	-	0.06	0.13	_	1.7 @ 20	5 @ 20	585	*	.13	.105	.085
334297CH	LG-150Y-CT	12	Yellow	Water clear SMD 1206	SMD1206	<u> </u>	0.07	0.13	_	1.7 @ 20	6.0 @ 20	588	*	.19	.147	.084
334318CH	LG-150E-DT	12	Hi-eff Red	White diffused SMD 1206	SMD1206	<u> </u>	0.06	0.13	_	1.7 @ 20	8 @ 20	635	*	.19	.147	.085
334289CH	LG150E-CT	12	Orange	Water clear SMD 1206	SMD1206	_	0.07	0.13	_	1.7 @ 20	6.0 @ 20	635	*	.147	.104	.084
334334CH	LG-150G-DT	12	Green	White diffused SMD 1206	SMD1206	i –	0.06	0.13	_	1.7 @ 20	10 @ 20	573	*	.118	.095	.078
334300CH	LG-150G-CT	12	Green	Water clear SMD 1206	SMD1206	¦ –	0.07	0.13	_	1.7 @ 20	12.5 @ 20	573	*	.158	.112	.085
334781CH	LG-150DBK-CT	12	Blue	Water clear SMD 1206	SMD1206	¦ –	0.06	0.13	_	3.5 @ 20	40 @ 20	470	2.29	2.20	1.72	1.31
334351CH	LY9553/TR1	13	Yellow	Water clear surface mount	PLCC-2	¦ –	0.12	1.30	_	1.7 @ 20	7.0 @ 10	585	*	.15	.114	.102
334369CH	LG9533/TR1	13	Green	Water clear surface mount	PLCC-2	¦ –	0.12	1.30	_	1.7 @ 20	9.0 @ 10	565	*	.15	.114	.103

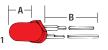
<sup>††</sup> For mounting hardware see pg 61

JAMECO ValuePro

	Sialight	MC	D	Other Manu	ıfacture	rs — L	.imit	e <b>d G</b>	reat D	eals		LITE	ON			
202489CH	MVL-301Y	1	Yellow	Yellow diffused	T1	.119/3	0.14	1.12	0.10	2.1 @ 20	9.0 @ 10	585	*	\$.171	\$.145	\$.109
211086CH	LTL-4231N-022	1	Green	Green diffused	T1	.119/3	0.13	1.10	0.10	2.1 @ 20	12.6 @ 10	565	*	.099	.084	.063
202471CH	MVL-301HR	1	Orange Red	Red diffused	T1	.119/3	0.14	1.12	0.10	2.0 @ 20	9.0 @ 10	640	*	.171	.145	.109
135597CH	LTL307E*	1	Orange Red	Red diffused	T1 3/4	.197/5	0.34	1.00	0.07	2.0 @ 20	19 @ 10	635	*	.115	.081	.073
26745CH	MCDL-170EC	14	Red	Water clear	T 3/4	.083/2.1	0.06	0.25	0.11	2.1 @ 20	7 @ 10	635	.23	.207	.189	.18
320282CH	566-0306	15	Yellow	Yellow diffused rect.	2 x 5mm	! –	0.28	0.11	0.10	2.1 @ 20	3.5 @ 20	583	.89	.76	.46	.40
320274CH	566-0206	15	Green	Green diffused rect.	2 x 5mm	¦ –	0.28	0.11	0.10	2.2 @ 20	4 @ 20	565	1.15	.94	.53	.515
320291CH	566-0406	15	Red	Red diffused rect.	2 x 5mm	! –	0.28	0.11	0.10	2 @ 20	7.4 @ 20	635	.89	.76	.46	.404

<sup>\*10</sup> pcs. in LEDs & LED Mounting Hardware cabinet kit, pg 61









\* Prepackaged: order in increments of 10, 100 or 1000 Fig. 3

	Mfr. Cross		Emitting	Lens/Feature	LED	Diameter	Dimer	sions	Lead	Typical	Typical	Wavelength		Pric	ing	
Part No.	Reference No.	Fig.	Color	Description	Size	inch/mm	A"	B"	Spacing	Vf @ If (mA)	mcd @ mA	nm	1	10	100	1000
206501CH	LVY3331	1	Yellow	Yellow transparent	T1 <sup>3</sup> / <sub>4</sub>	.197/5	0.24	1.07	0.07	2.2 @ 20	700 @ 20	595	*	\$.19	\$.15	\$.12
206519CH	LHR3331	1	Red	Red transparent	T1 3/ <sub>4</sub>	.197/5	0.24	1.07	0.07	2.0 @ 20	660 @ 20	550	*	.19	.15	.12
334490CH	LHRF3333/S46/A	1	Red	Water clear	T1 3/ <sub>4</sub>	.197/5	0.34	0.98	0.10	1.5 @ 20	700 @ 20	630	.37	.323	.157	.109
351089CH	MCDL-517URD-F	1	Super Red	Red diffused blinking	T1 3/ <sub>4</sub>	.197/5	0.34	1.00	0.10	1.8 @ 20	500 @ 20	660	.57	.469	.323	.31
333438CH	UT1873-81-UR	1	Red	Water clear	T1 3/ <sub>4</sub>	.197/5	0.34	0.94	0.10	1.9 @ 20	1000 @ 20	660	*	.19	.119	.085
333500CH	LHR3833/A	1	Red	Water clear	T1 <sup>3</sup> / <sub>4</sub>	.197/5	0.35	0.98	0.10	1.5 @ 20	1500 @ 20	660	*	.19	.119	.085
333631CH	LUE13733	1	Orange	Water clear	T1 3/ <sub>4</sub>	.197/5	0.34	0.98	0.10	1.7 @ 20	700 @ 20	620	*	.13	.12	.114
153154CH	LVG3333	1	Green	Water clear (HLMP-8509)	T1 3/ <sub>4</sub>	.197/5	0.36	0.90	0.10	2.3 @ 20	500 @ 20	565	*	.14	.10	.08
333551CH	LVG13233	1	Green	Water clear	T1 3/ <sub>4</sub>	.197/5	0.35	0.98	0.10	1.7 @ 20	600 @ 20	565	.23	.219	.146	.138
334465CH	LDBK3331/H0	1	Blue	Blue transparent	T1 3/ <sub>4</sub>	.197/5	0.34	0.98	0.10	3.5 @ 20	900 @ 20	470	1.79	1.46	1.29	1.07
334748CH	UT63B3-41-UR33	1	Blue	Water clear	T1	.119/3	0.17	0.94	0.10	3.2 @ 20	900 @ 20	470	1.26	1.21	.92	.66
334756CH	UT5KW3-AA-UAE3-T01	2	White	Water clear	SMD1206	<u> </u>	.08	0.14	_	3.2 @ 20	550 @ 20	_	2.35	2.19	1.99	1.62

Brig	htView			Other Man	ufactui	rers —	Limit	ed G	reat D	eals						
210825CH	BVU-5MIQN1	1	Orange Red	Red diffused	T1 <sup>3</sup> / <sub>4</sub>	.197/5	0.30	1.07	0.08	2.1 @ 20	600 @ 20	615	\$.44	\$.40	\$.32	\$.24
176532CH	MV50G	3	Green	Water clear	T 3/ <sub>4</sub>	.069/1.7	0.06	0.40	0.08	2.1 @ 20	300 @ 20	568	*	.108	.097	.088

JAMECO Awesome Prices Consistent Quality Professional Grade Backed by Jameco

Color Code Legend

New Sale Lower\$ QtySave

High-Output LEDs

• Typical DC forward current 20mA

EXCLUSIVE

NEW

See page 61 for LED Mounting Hardware

Fig. 1

Fig. 2 \* Prepackaged: order in increments of 10, 100 or 1000

	Mfr. Cross		Emitting	Lens/Feature	LED	Diameter	Dime	nsions	Lead	Typical	Typical	Wavelength		Pri	cing	
Part No.	Reference No.	Fig.	Color	Description	Size	inch/mm	Α"	В"	Spacing	Vf @ If (mA)	mcd @ mA	nm	1	10	100	1000
334764CH	CMD204UWC-JV	1	White	Water clear	•	.119/3	0.20	1.00	0.10	3.7 @ 20	1000 @ 20	475	\$2.35	\$2.29	\$1.71	\$1.54
217525CH	MCDPW-3004C	1	White	Water clear	¦ T1	.119/3	0.18	1.00	0.10	3.8 @ 20	3000 @ 20	_	2.99	2.85	2.69	2.55
333577CH	LUYS3333	1	Yellow	Water Clear	T1 3/ <sub>4</sub>	.197/5	0.34	0.98	0.10	1.7 @ 20	2700 @ 20	587	.30	.285	.177	.124
197675CH	BVT-5E1TT4E	1	Yellow	Water clear	T1 3/ <sub>4</sub>	.197/5	0.30	1.08	0.08	2.3 @ 20	2800 @ 20	592	.45	.36	.29	.27
333614CH	LUY3833H	1	Yellow	Water clear	T1 3/ <sub>4</sub>	.197/5	0.34	0.98	0.10	1.7 @ 20	5000 @ 20	590	.31	.261	.154	.147
333569CH	LUY3333/A	1	Yellow	Water clear	T1 3/ <sub>4</sub>	.197/5	0.35	1.00	0.10	1.7 @ 20	1500 @ 20	595	.30	.285	.177	.124
333593CH	LHY3833	1	Yellow	Water clear	T1 3/ <sub>4</sub>		0.35	1.00	0.10	1.7 @ 20	1500 @ 20	595	.30	.285	.265	.178
333606CH	MV8315-JV	1	Yellow	Water clear	T1 3/ <sub>4</sub>	.197/5	0.34	0.98	0.10	1.7 @ 20	2700 @ 20	595	.31	.28	.21	.181
197616CH	BVU-5E1QH4E	1	Red	Water clear	T1 3/ <sub>4</sub>	.197/5	0.30	1.05	0.08	1.8 @ 20	2180 @ 20	630	.39	.35	.29	.25
334422CH	UT9C13-86-UDC2	1	Red	Water clear	T1 3/ <sub>4</sub>	.197/5	0.34	0.98	0.10	1.9 @ 20	2700 @ 20	630	.20	.196	.157	.109
334481CH	UT1813-86-UC9T-P27	1	Ultra Red	Water clear	T1 3/4	.197/5	0.34	0.94	0.10	2.2 @ 20	3500 @ 20	642	.20	.196	.157	.146
152864CH	BVU-501RD4	2	Red Super Bright	Water clear	T1 3/ <sub>4</sub>	.197/5	0.34	0.89	0.10	1.9 @ 20	1000 @ 20	660	.29	.24	.19	.15
333446CH	UT1873-81-UR-P22	1	Red	Water clear	T1 3/ <sub>4</sub>		0.34	0.98	0.10	1.9 @ 20	1200 @ 20	660	*	.19	.119	.098
333518CH	LUR13233	1	Red	Water clear	T1 3/ <sub>4</sub>		0.35	0.98	0.10	1.5 @ 20	2400 @ 20	660	*	.19	.147	.097
333526CH	LUR3833	1	Red	Water clear	T1 3/ <sub>4</sub>	.197/5	0.35	0.98	0.10	1.5 @ 20	2700 @ 20	660	*	.16	.119	.107
333665CH	LEF3833	1	Orange	Water clear	T1 3/ <sub>4</sub>	.197/5	0.34	0.98	0.10	1.7 @ 20	1700 @ 20	620	.30	.29	.20	.178
333649CH	LHE3333	1	Orange	Water clear	T1 3/ <sub>4</sub>	.197/5	0.34	0.98	0.10	1.7 @ 20	1800 @ 20	620	.30	.285	.177	.124
333657CH	LUE3333	1	Orange	Water clear	T1 3/ <sub>4</sub>		0.34	0.98	0.10	1.7 @ 20	3400 @ 20	620	.29	.237	.208	.178
333673CH	LUE3833	1	Orange	Water clear	T1 3/ <sub>4</sub>	.197/5	0.34	0.98	0.10	1.7 @ 20	5000 @ 20	620	.30	.27	.177	.147
131895CH	TLSH180P	1	Orange	Water clear	T1 3/ <sub>4</sub>	.197/5	0.39	0.80	0.10	2.1 @ 20	10000 @ 20	623	2.49	2.19	1.95	1.79
197683CH	BVT-5E1QT4ER	1	Orange Red	Water clear	T1 3/ <sub>4</sub>	.197/5	0.29	1.08	0.08	2.3 @ 20	4650 @ 20	634	.69	.59	.49	.39
334473CH	LDGL3333/H0	1	BGreen	Water clear	T1 3/ <sub>4</sub>	.197/5	0.34	0.98	0.10	3.5 @ 20	3400 @ 20	502	1.79	1.45	1.29	1.05
183214CH	MCDPG-503PC1	1	Green	Water clear	T1 3/ <sub>4</sub>	.197/5	0.30	1.04	0.08	3.5 @ 20	2200 @ 20	515	2.95	2.65	2.39	2.15
183222CH	MCDL-513SBC4	1	Blue	Water clear	T1 3/ <sub>4</sub>	.197/5	0.29	1.02	0.08	3.6 @ 20	3000 @ 20	470	3.25	2.95	2.65	2.39
334502CH	LWK3333	1	White	Water clear	T1 3/ <sub>4</sub>	.197/5	0.34	0.98	0.10	3.5 @ 20	5000 @ 20	_	1.89	1.55	1.28	1.02
334772CH	UT18W3-86-UAF1-P22	1	White	Water clear	T1 3/4	.197/5	0.34	1.00	0.10	3.6 @ 20	2900 @ 20	475	2.35	2.19	1.97	1.77
183231CH	BVU-5C14WK4-B	1	White	Water clear	T1 3/ <sub>4</sub>	.197/5	0.30	1.06	0.08	3.5 @ 20	3000 @ 20	_	2.95	2.65	2.39	2.15
142893CH	BVU-5E1WK4-B	1	White	Water clear	T1 3/ <sub>4</sub>	.197/5	0.34	0.79	0.08	3.5 @ 20	3700 @ 20	_	3.95	3.59	2.95	2.75
320531CH	MCDL-5013UWC	1	White	Water clear	T1 3/ <sub>4</sub>	.197/5	0.30	1.00	0.10	3.8 @ 20	5000 @ 20	_	1.09	.98	.76	.68
197641CH	BVT-529TT3E	2	Yellow	Yellow transparent	Oval	.170/.220	0.29	1.04	0.08	2.3 @ 20	7800 @ 20	592	.69	.62	.55	.49

#### **HLMP Series LEDs**



\* Prepackaged: order in increments of 10, 100 or 1000

	Mfr. Cross	Emitting	Lens/Feature	LED	Diameter	Dimo	nsions	Lead	Typical	Typical	Wavelength		Pri	cing	
Part No.	Ref. No.	Color	Description	Size	inch/mm	A"	B"	Spacing	Vf @ If (mA)	mcd @ mA	nm	1	10	100	1000
253278CH	HLMP-1301	Red	Diffused	T1	.119/3	0.19	1.00	0.10	1.9 @ 10	5.4 @ 10	635	*	\$.137	\$.112	\$.098
253366CH	HLMP-1321	Red	Tinted	T1	.119/3	0.19	1.00	0.10	1.9 @ 10	30 @ 10	635	*	.167	.13	.10
253551CH	HLMP-1340	Red	Clear	T1	.119/3	0.19	1.00	0.10	1.9 @ 20	55 @ 10	635	*	.122	.105	.076
253690CH	HLMP-1700	Red	Diffused	T1	.119/3	0.19	1.00	0.10	1.7 @ 2	2.1@2	635	*	.132	.105	.086
253702CH	HLMP-K101	Red	Diffused	T1	.119/3	0.19	1.00	0.10	1.8 @ 20	45 @ 20	645	*	.203	.133	.106
253711CH	HLMP-K105	Red	Clear	T1	.119/3	0.19	1.00	0.10	2.2 @ 20	65 @ 20	645	*	.169	.152	.113
253729CH	HLMP-K150	Red	Diffused	T1	.119/3	0.19	1.00	0.10	1.8 @ 1	2.0@1	645	*	.216	.171	.097
253631CH	HLMP-1503	Green	Diffused	T1	.119/3	0.19	1.00	0.10	2.1 @ 10	1.0 @ 10	565	*	.103	.076	.061
253649CH	HLMP-1521	Green	Tinted	T1	.119/3	0.19	1.00	0.10	2.7 @ 10	6.7 @ 10	565	*	.216	.171	.095
253657CH	HLMP-1523	Green	Diffused	T1	.119/3	0.19	1.00	0.10	2.1 @ 10	7.0 @ 10	565	.32	.244	.171	.095
253665CH	HLMP-1540	Green	Clear	T1	.119/3	0.19	1.00	0.10	45 @ 20	2.2 @ 20	565	*	.132	.105	.086
253681CH	HLMP-1790	Green	Diffused	T1	.119/3	0.19	1.00	0.10	2.2@2	2.3 @ 2	565	*	.132	.105	.099
253673CH	HLMP-1719	Yellow	Diffused	T1	.119/3	0.19	1.00	0.10	2.5 @ 2	2.1@2	583	*	.132	.105	.086
253614CH	HLMP-1401	Yellow	Diffused	T1	.119/3	0.19	1.00	0.10	2.0 @ 10	2.2 @ 10	583	*	.137	.112	.098
253622CH	HLMP-1440	Yellow	Clear	T1	.119/3	0.19	1.00	0.10	2.1 @ 20	45 @ 20	583	*	.122	.105	.076
253745CH	HLMP-3300	Red	Diffused	T1 ¾	.197/5	0.36	1.00	0.10	2.2 @ 10	3.5 @ 10	635	.33	.263	.188	.113
253753CH	HLMP-3301	Red	Diffused	T1 ¾	.197/5	0.36	1.00	0.10	2.4 @ 10	5.4 @ 10	635	*	.16	.143	.095
253788CH	HLMP-3750	Red	Clear	T1 ¾	.197/5	0.36	0.90	0.10	1.9 @ 20	125 @ 20	635	*	.141	.105	.07
253817CH	HLMP-4700	Red	Diffused	T1 ¾	.197/5	0.36	1.00	0.10	1.7 @ 2	2.3 @ 2	626	.31	.244	.171	.095
253841CH	HLMP-D101	Red	Diffused	T1 ¾	.197/5	0.36	1.00	0.10	2.2 @ 20	70 @ 20	645	*	.207	.171	.119
253850CH	HLMP-D150	Red	Diffused	T1 ¾	.197/5	0.36	1.00	0.10	1.8 @ 1	3.0 @ 1	645	.31	.244	.171	.096
11797CH	QLMP-D141*	Red	Water clear	T1 ¾	.197/5	0.29	1.05	0.07	2.0 @ 20	350 @ 20	660	*	.158	.112	.073
253868CH	HLMP-D401	Orange Red	Diffused	T1 ¾	.197/5	0.36	1.00	0.10	2.4 @ 10	5.4 @ 10	600	*	.14	.127	.126
203553CH	HLMP-4100	Orange Red	Water clear	T1 ¾	.197/5	0.33	1.07	0.08	2.1 @ 20	600 @ 20	615	.29	.25	.20	.15
253770CH	HLMP-3507	Green	Diffused	T1 ¾	.197/5	0.36	1.00	0.10	2.1 @ 10	4.2 @ 10	565	*	.169	.143	.095
253809CH	HLMP-3950	Green	Clear	T1 ¾	.197/5	0.36	0.90	0.10	1.5 @ 20	265 @ 20	565	*	.244	.171	.095
253833CH	HLMP-4740	Green	Diffused	T1 ¾	.197/5	0.36	1.00	0.10	2.2@2	2.3 @ 2	565	*	.244	.171	.124
253761CH	HLMP-3401	Yellow	Diffused	T1 ¾	.197/5	0.36	1.00	0.10	2.0 @ 10	5.7 @ 10	583	.29	.244	.171	.095
253796CH	HLMP-3850	Yellow	Clear	T1 3/4	.197/5	0.36	0.90	0.10	2.1 @ 20	140 @ 20	583	*	.244	.171	.098
253825CH	HLMP-4719	Yellow	Diffused	T1 ¾	.197/5	0.36	1.00	0.10	2.5 @ 2	2.1@2	585	*	.226	.171	.096

\*10 pcs. in LEDs & LED Mounting Hardware cabinet kit, pg 61

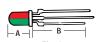


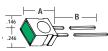


### **LEDTECH** Standard and High-Output LEDs

• Typical DC forward current 20mA Ledtech is a QS9000 and













ISO-90	00 Certified Co	mpa	nny F	ig. 1 Fi	ig. 2	·	_ ~	Fig. 3		Lower \$\$\$	Quanti	ity SAVE			d: order in of 10, 100	
Part	Product		Emitting	Lens/Feature	LED	Diameter	Dime	nsions	Lead	Typical	Typical	Wavelength		Pric	cing	
Number	Number	Fig.	Color	Description	Size	(in./mm)	A"	В"	Spacing	Vf @ If (mA)	mcd @ mA	nm	1	10	100	1000
156953CH	LT0373-41	1	Red Super Bright	Water clear	T1	.119/3	0.21	1.07	0.08	1.7 @ 20	600 @ 20	660	\$.24	\$.22	\$.17	\$.14
156945CH	LT0362-25-D61	2	Red/Green	White diff. bi-color tri-state	T1	.119/3	0.16	0.87	0.08	2.1 @ 20	2.7/13.3 @ 20	700/567	.29	.25	.19	.15
152750CH	LT0344R-41	1	Orange Red	Red clear	T1	.119/3	0.20	0.89	0.10	2.1 @ 20	52.9 @ 10	635	*	.19	.16	.12
152784CH	LT0341R-41	1	Orange Red	Red diffused		.119/3	0.20	0.89	0.10	2.1 @ 20	15.5 @ 10	635	*	.17	.15	.12
152768CH	LT0324-41	1	Green	Green clear		.119/3	0.20	0.89	0.10	2.1 @ 20	45 @ 20	567	*	.077	.059	.057
156929CH	LT0321-41-HE	1	Green	Green diffused	•	.118/3	0.16	0.88	0.10	2.1 @ 20	32 @ 20	567	*	.18	.11	.10
156937CH	LT0331-41	1	Yellow	Yellow diffused		.119/3	0.20	0.95	0.10	2.1 @ 20	11 @ 20	585	*	.14	.10	.07
136493CH	LT0333-41*	1	Yellow	Water clear	T1	.119/3	0.20	0.95	0.10	2.3 @ 20	38 @ 20	589	*	.19	.11	.09
215597CH	LT2K33-81-UC9T	1	Yellow	Water clear	T1¾	.197/5	0.31	0.89	0.10	2.2 @ 20	5000 @ 20	592	.59	.55	.49	.45
261622CH	LT1873-81-UR-P22	1	Red	Water clear		.197/5	0.34	0.89	0.10	1.9 @ 20	1200 @ 20	660	.21	.20	.19	.15
242843CH	LT1811-81	1	Red	Red diffused	1	.197/5	0.30	0.88	0.10	2.1 @ 20	4.1 @ 20	700	*	.12	.10	.06
152805CH	LT1873-81-UR	1	Red Ultra Bright	Water clear		.197/5	0.34	0.89	0.10	1.9 @ 20	2000 @ 20	660	.29	.25	.19	.15
153138CH	LT2KJ3-UR-S14	1	Orange	Water clear	T13/4	.197/5	0.36	0.90	0.10	2.1 @ 20	2500 @ 20	621	.49	.44	.39	.35
302033CH	LT1814-81	1	Orange	Red diffused	T13/4	.197/5	0.34	0.88	0.10	2.1 @ 20	23.1 @ 20	635	*	.105	.071	.054
152856CH	LT1841R-81	1	Orange Red	Red diffused	T13/4	.197/5	0.34	0.89	0.10	2.1 @ 20	23 @ 20	635	*	.17	.15	.13
156961CH	LT1823-81-HE	1	Green	Water clear	T13/4	.197/5	0.34	0.87	0.10	2.1 @ 20	500 @ 20	567	*	.17	.15	.12
152821CH	LT1821-81-HE	1	Green	Green diffused	T13/4	.197/5	0.34	0.89	0.10	2.1 @ 20	96 @ 20	567	*	.16	.12	.09
175687CH	LT0524-81	1	Green	Green transparent	T13/4	.197/5	0.24	1.07	0.07	2.1 @ 20	44 @ 20	567	*	.16	.12	.09
152792CH	LT1833-81-M1	1	Ylw Super Bright	Water clear	T13/4	.197/5	0.34	0.89	0.10	2.1 @ 20	1040 @ 20	593	.26	.24	.19	.14
152830CH	LT1831-81-UR	1	Ylw Ultra Bright	Yellow diffused	T13/4	.197/5	0.34	0.89	0.10	2.0 @ 20	424 @ 20	593	.26	.24	.20	.14
34850CH	LT7341R-81 <sup>†</sup>	3	Orange Red	Red diffused rectangular	3.5 x 6	i –	0.27	0.85	0.07	2.0 @ 20	5.2 @ 20	635	.29	.242	.196	.152
					White	Diffused	Backl	ight								
151415CH	LT1F24-A2-S1	_	Green	Backlight, diffused	2.05"L x	0.78"H x 0.0	09"T		8-pin	4.2 @ 20	140 @ 20	567	\$2.95	\$2.66	\$2.12	\$1.59
302535CH	LT1F24-A2-S8	—	Green	Backlight, diffused	1.56"L x	( 0.98"H x 0.	15"T		8-pin	4.2 @ 20	24.8@ 20	567	2.95	2.65	2.39	1.95

<sup>\*10</sup> pcs. in LEDs & LED Mounting Hardware cabinet kit, pg 61 † For Mounting Hardware, pg 61



#### **LED Displays**

The general advantages of LED displays compared to incandescent types include:

- · Lower power consumption
- Longer lifetime (averaged more than 300,000 hours)
- · Compact size suitable for instrumentation and graphic representations

- · Soldering bath: not more than 5 seconds @ 260°C
- · Soldering iron: not more than 3 seconds @ 300°C under 30W





Single Digit RHDP

3-Digit RHDP









Dot Matrix



202526CH pg 60

-40				
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7-Segment Displays

	Mfr. Cross	Character	Illuminated	Buss	Pins/	Typical	Typical	Wavelength	Decimal	Pricing			
Part No.	Reference No.	Height	Color	Polarity*	Leads	Vf @ If (mA)	mcd @ mA	nm	Point #	1	10	100	1000
334983CH	UA3051-12	0.300"	Red	CA	10	2.1@20	0.8@10	700	RHDP	\$.78	\$.69	\$.61	\$.478
334991CH	UA3051-10	0.300"	Red	CA	10	2.1@20	0.8@10	700	LHDP	.78	.69	.66	.484
334799CH	UC3051-11	0.300"	Red	CC	10	2.1@20	0.8@10	700	RHDP	.78	.76	.61	.478
335003CH	UA3041R-12	0.300"	Hi-eff Red	CA	10	2.1@20	3.3@10	635	RHDP	.68	.60	.58	.49
334801CH	UC3041R-11	0.300"	Hi-eff Red	CC	10	2.1@20	3.3@10	635	RHDP	.68	.60	.54	.49
334810CH	UC3041R-20	0.300"	Hi-eff Red	CC	10	2.1@20	3.3@10	635	LHDP/RHDP	.86	.77	.57	.49
335011CH	UA3041-12	0.300"	Orange	CA	10	2.1@20	3.3@10	635	RHDP	.68	.60	.57	.42
335257CH	UC3671-11-M1-EWAK	0.360"	Super Bright Red	CA	10	1.7@20	6.0@10	643	RHDP	1.27	1.12	1.06	.75
334836CH	UA4071-11-UR EWAK	0.400"	Red	CA	10	1.9@20	25.6@10	660	RHDP	.88	.79	.62	.56
335020CH	UA4051-11	0.400"	Red	CA	10	2.1@20	0.8@10	700	RHDP	.69	.62	.432	.41
334844CH	UC4041R-11	0.400"	Hi-eff Red	CC	10	2.1@20	3.3@10	635	RHDP	.77	.73	.56	.44
334828CH	UC4041-11	0.400"	Orange	CC	10	2.1@20	3.3@10	635	RHDP	.78	.74	.56	.44
335046CH	UA4041-11	0.400"	Orange	CA	10	2.1@20	3.3@10	635	RHDP	.78	.74	.56	.44
335054CH	UN4043-13 EWRS	0.400"	Orange	3-digit CA	12	2.1@20	3.3@10	635	RHDP	2.25	1.96	1.88	1.37
334852CH	UC4031-11	0.400"	Green	CC	10	2.1@20	2.3@10	567	RHDP	.80	.76	.57	.452
335038CH	UA4021-11	0.400"	Green	CA	10	2.1@20	2.9@10	567	RHDP	.80	.75	.57	.452
335214CH	UC5442-11 EWRS†	0.540"	Orange	2-digit CC	18	2.1@20	3.3@10	635	RHDP	2.95	2.58	2.48	1.81
335222CH	UA5422-11 EWRS†	0.540"	Green	2-digit CA	18	2.1@20	2.9@10	567	RHDP	2.65	2.34	2.24	1.64
334887CH	UC5651-11	0.560"	Red	CC	10	2.1@20	0.8@10	700	RHDP	1.04	.99	.87	.70

<sup>\*</sup> CA-Common Anode/CC-Common Cathode/AC-Anode Column/CR-Cathode Row/AR-Anode Row

<sup>#</sup> LHDP-Left Hand Decimal Point / RHDP-Right Hand Decimal Point

<sup>† 14</sup> segment

JAMECO

**Value**Pro

A Jamesta EXCLUSIVE

NEW

### 7-Segment Displays (Continued)

**Quantity SAVE** 

Lower \$\$\$

	Mfr. Cross	Character	Illuminated	Buss	Pins/	Typical	Typical	Wavelength	Decimal	Pricing			
Part No.	Reference No.	Height	Color	Polarity*	Leads	Vf @ If (mA)	mcd @ mA	nm	Point #	1	10	100	1000
334932CH	UC5652-11	0.560"	Red	2-digit CC	18	2.1 @ 20	0.8 @ 10	700	RHDP	\$.95	\$.90	\$.68	\$.65
334959CH	UA5652-11	0.560"	Red	2-digit CA	18	2.1 @ 20	0.8 @ 10	700	RHDP	1.39	1.32	.98	.94
335089CH	UA5651-11	0.560"	Red	CA	10	2.1 @ 20	0.8 @ 10	700	RHDP	1.04	.99	.87	.70
335273CH	UA5654-11 EWRS	0.560"	Red	4-digit CA	36	2.1 @ 20	0.8 @ 10	700	RHDP	2.25	1.75	1.52	1.26
334895CH	UC5641R-11	0.560"	Hi-eff Red	CC	10	2.1 @ 20	3.3 @ 10	635	RHDP	.76	.74	.51	.401
334941CH	UC5642R-11	0.560"	Hi-eff Red	2-digit CC	18	2.1 @ 20	3.3 @ 10	635	RHDP	1.18	.95	.80	.64
334975CH	UA5642R-11	0.560"	Hi-eff Red	2-digit CA	18	2.1 @ 20	3.3 @ 10	635	RHDP	.85	.84	.63	.60
335100CH	UA5641R-11	0.560"	Hi-eff Red	CA	10	2.1 @ 20	3.3 @ 10	635	RHDP	.75	.67	.50	.394
335311CH	UA5641-11	0.560"	Orange	CA	10	2.1 @ 20	3.3 @ 10	635	RHDP	.60	.50	.40	.38
334879CH	UC5641-11	0.560"	Orange	CC	10	2.1 @ 20	3.3 @ 10	635	RHDP	.65	.60	.416	.401
335151CH	UA5642-1	0.560"	Orange	2-digit CA	18	2.1 @ 20	3.3 @ 10	635	RHDP	.88	.81	.64	.58
334924CH	UC5642-11	0.560"	Orange	2-digit CC	18	2.1 @ 20	3.3 @ 10	635	RHDP	1.03	.89	.61	.58
335185CH	UM5644R-11 RRRS	0.560"	Orange	4-digit CC	12	2.1 @ 20	3.3 @ 10	635	RHDP	2.59	2.34	2.24	1.64
335126CH	UA5621-11	0.560"	Green	CA	10	2.1 @ 20	2.9 @ 10	562	RHDP	.75	.61	.40	.38
334861CH	UC5621-11	0.560"	Green	CC	10	2.1 @ 20	2.9 @ 10	567	RHDP	.81	.80	.546	.423
334967CH	UA5622-11	0.560"	Green	2-digit CA	18	2.1 @ 20	2.9 @ 10	567	RHDP	1.65	1.45	1.20	.96
334916CH	UC5622-11	0.560"	Green	2-digit CC	18	2.1 @ 20	2.9 @ 10	567	RHDP	1.04	.99	.74	.70
335169CH	UC5624-11 EWRS	0.560"	Green	4-digit CC	36	2.1 @ 20	2.9 @ 10	567	RHDP	2.59	2.46	1.67	1.51
335177CH	UA5624-11 EWRS	0.560"	Green	4-digit CA	36	2.1 @ 20	2.9 @ 10	567	RHDP	2.59	2.25	2.05	1.69
335193CH	UM5624-11 EWRS	0.560"	Green	4-digit CC	12	2.1 @ 20	2.9 @ 10	567	RHDP	2.59	2.34	2.24	1.64
334908CH	UC8041-21 EWRS	0.800"	Orange	CC	13	2.1 @ 20	3.8 @ 10	635	RHDP	1.29	1.05	.88	.70

Invest &	National Semiconductor	DTECI	тинол н	Other Ma	anufac	turers — L	imited Grea	at Deals	LITE(0)NI 🗷	Texas Instrum	Par	nasonic	<b>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</b>
24731CH	LSD3021-11	.300"	Red	CA	11	1.9 @ 20	0.3 @ 20	697	RHDP	\$.87	\$.70	\$.50	\$.47
308187CH	LC3041R-RRRN	.300"	Hi-eff Red	CC	10	2.1 @ 20	3.3 @ 10	635	LHDP/RHDP	.73	.64	.59	.56
24740CH	LSD3221-11	.300"	Red	CA	11	2.1 @ 20	2.5 @ 20	697	LHDP	.79	.72	.64	.58
320469CH	UA3031-16-EWRN	.300"	Yellow	CA	11	3.0 @ 20	2.3 @ 10	585	LHDP/RHDP	.71	.64	.58	.518
24782CH	LSD3211-11	.300"	Red	CC	10	2.1 @ 20	2.5 @ 20	697	RHDP	.89	.75	.65	.49
308179CH	LC3951-11EWAK	.390"	Red	CC	10	2.1 @ 20	0.6 @ 10	700	RHDP	.79	.73	.68	.67
17187CH	LSD5051-11	.500"	Red	CC	10	2.1 @ 20	0.9 @ 20	697	RHDP	.89	.80	.72	.65
17208CH	LSD5061-11	.500"	Red	CA	10	2.1 @ 20	0.9 @ 20	697	RHDP	.89	.75	.65	.49
104213CH	LSD5124-10	.560"	Orange Red	CA	10	2.0 @ 20	2.4 @ 20	635	RHDP	.89	.80	.64	.48
308224CH	LM5643R-11RRRN	.560"	Orange	3-digit CC	11	2.1 @ 20	3.3 @ 10	635	RHDP	2.25	2.05	1.79	1.69
308232CH	LM5644R-11RRRN	.560"	Orange	4-digit CC	12	2.1 @ 20	3.3 @ 10	635	RHDP	2.75	2.45	2.19	2.09
199531CH	LSD5111-11	.560"	Red	CC	10	2.1 @ 20	0.8 @ 20	697	RHDP	1.25	1.11	.89	.66
24715CH	LDD5121-20	.560"	Red	2-digit CA	18	2.1 @ 20	0.8 @ 20	697	RHDP	1.25	1.05	.89	.75
24723CH	LDD5111-11	.560"	Red	2-digit CC	18	2.1 @ 20	0.8 @ 20	697	RHDP	1.25	1.05	.89	.75
200379CH	LB602VAGI	.560"	Red	2-digit CA	18	2.0 @ 10	16 @ 10	650	RHDP	1.19	1.07	.86	.64
24694CH	LDD5124	.560"	Orange Red	2-digit CA	18	2.0 @ 20	2.4 @ 20	635	RHDP	1.69	1.52	.96	.73
24707CH	LDD5114-20	.560"	Orange Red	2-digit CC	18	2.0 @ 20	2.4 @ 20	635	RHDP	1.59	1.43	.98	.69
200539CH	ELD556YWA	.560"	Yellow	2-digit CA	18	2.0 @ 20	1.9 @ 10	590	RHDP	1.39	1.15	1.00	.75
308216CH	LA5622-11EWRN	.560"	Green	2-digit CA	18	2.1 @ 20	2.9 @ 10	567	RHDP	.87	.65	.56	.53
225963CH	KW3-562A2B	.560"	Green	3-digit CA	28	2.2 @ 20	15 @ 20	568	RHDP	2.39	2.15	1.95	1.25
199582CH	LC56311	.560"	Yellow	CC	8	2.1 @ 20	5.2 @ 20	589	RHDP	1.49	1.25	1.09	.79
18737CH	LSD816-11	.800"	Orange Red	CA	13	1.6 @ 20	0.9 @ 20	655	RHDP	1.49	1.35	1.19	.99
308259CH	LA8071-11-MIEWRW	.800"	Red	CA	13	1.7 @ 20	8.9 @ 10	660	LHDP/RHDP	1.39	1.25	1.13	1.07
18753CH	LSD8151-10	.800"	Red	CC	13	2.1 @ 20	1.0 @ 20	697	RHDP	1.49	1.34	1.07	.80
206017CH	SC08-11HWA O	.800"	Red	CC	13	2.0 @ 20	.36 @ 10	700	RHDP	1.49	1.35	1.05	.80
176559CH	C8021-1	.800"	Green	CC	13	2.0 @ 20	0.9 @ 20	568	RHDP	.49	.44	.35	.26
308161CH	LA2541-24EWRN	1.0"	Orange	CA	10	4.2 @ 20	5.2 @ 10	635	RHDP	2.89	2.65	2.29	2.15
97172CH	LSD10061-10	1.0"	Red	CA	10	2.1 @ 20	2.0 @ 20	697	RHDP	1.39	1.25	1.12	.99
97199CH	LSD23265-10	2.24"	Red	CA	10	1.7 @ 20	21 @ 20	660	RHDP	5.75	5.19	4.69	4.19
97201CH	LSD23255-10	2.24"	Red	CC	10	1.7 @ 20	21 @ 20	660	RHDP	4.49	3.95	3.25	2.95
308208CH	LA2321-42EWRN	2.24"	Green	CA	10	4.2 @ 40	2.7 @ 10	567	RHDP	8.45	8.15	6.59	5.25
202518CH	LSD30165-20	3.0"	Orange Red	CA	10	8 @ 20	4.5 @ 10	635	RHDP	7.39	6.65	5.32	3.99
202542CH	LSD30155-20	3.0"	Orange Red	CC	10	8 @ 20	4.5 @ 10	635	RHDP	5.49	4.95	4.45	4.05
105591CH	LSD40054-20†	4.0"	Orange Red	CC	10	2.0 @ 20	18 @ 20	635	RHDP	9.49	8.29	7.49	6.49
202500CH	LSD40064-20	4.0"	Orange Red	CA	10	2.0 @ 20	18 @ 10	635	RHDP	10.49	9.49	8.59	7.79
202526CH	LSD50065-20	5.0"	Red	CA	10	17 @ 20	45 @ 10	660	RHDP -\$	34.99 30.19	24.15	21.75	19.55
202534CH	LSD50055-20	5.0"	Red	CC	10	17 @ 20	45 @ 10	660	RHDP	17.95	14.35	12.95	11.65
* CA-Commo	on Anode/CC-Common Cath	nde/AC-Anode	Column/CP-Cathod	o Pow/AP Anodo	Dow #IUC	ND Loft Hand Docim	al Doint / DUDD Dial	ht Hand Docimal E	oint + 5 diados por	coamont 🐧 🛭	luo D/N = Lin	nitod Quantity	Available

<sup>\*</sup> CA-Common Anode/CC-Common Cathode/AC-Anode Column/CR-Cathode Row/AR-Anode Row # LHDP-Left Hand Decimal Point / RHDP-Right Hand Decimal Point | † 5 diodes per segment • Blue P/N = Limited Quantity Available

Jameco's Got The Docs

We offer free technical documents for most of the products we carry. Find them easily on the product spec page @ www.Jameco.com



### **LEDs Displays (Dot Matrix)**

**Quantity SAVE** 

	Mfr. Cross	Jameco	Character	Illuminated	Buss	Pins/	Typical	Typical	Wavelength	Decimal		Pricing		
Part No.	Reference No.	Socket Number	Height	Color	Polarity*	Leads	Vf @ If (mA)	mcd @ mA	nm	Point #	1	10	100	1000
173833CH	HP5082-7300	:	.290"	Red	4x7 Numeric	8	5.0 @ 170	.03 @ 20	660	RHDP	\$4.95	\$4.46	\$4.01	\$3.34
32951CH	TIL311	37161CH	.300"	Red	4x7 Hex character	11	5.0 @ 5	0.1@5	660	_	16.95	14.35	12.20	11.45
308152CH	LA5041R-11BRRRN	_	0.500"	Orange	Alphanumeric	18	2.1 @ 20	7.4 @ 10	635	RHDP	1.69	1.49	.89	.85
118906CH	LTP747R	37161CH	.680"	Orange Red	5 x 7 AC/CR	12	1.7 @ 20	0.2 @ 20	655	_	1.95	1.79	1.45	1.05
218843CH	CSM57041T-11	_	.700"	Red	5 x 7 CC/CR	12	1.8 @ 20	8 @ 20	660	_	1.95	1.76	1.40	1.05
308144CH	LJ5763-M1FEWRN	_	1.10"	Red/Green	5 x 7 CC/AR	20	1.7/2.1 @ 20	10.8/20.0 @ 10	660/567	_	4.05	3.45	3.25	3.09
335281CH	UJ1141-21 EWRN		1.2"	Orange	5 x 7 CC/AR	14	2.1 @ 20	4.6 @ 10	635	_	5.49	4.95	4.45	3.94
335290CH	UJ2041-22 EWRN	_	2.0"	Orange	5 x 7 CC/AR	14	2.1 @ 20	6.0 @ 10	630	_	3.65	3.26	3.14	2.73
206560CH	LTP2157AG	_	2.0"	Green	5 x 7 CC/AR	14	3.7 @ 80	4.8 @ 80	565	_	2.59	2.35	2.13	1.94
183265CH	LMD5821ASR-20	- :	2.3"	Red	5 x 8 CC/AR	14	1.7 @ 20	12 @ 20	660	_	4.95	4.49	3.95	3.49
308110CH	LJ4071-22 EWRN		3.60"	Red	5 x 7 CC/AR	14	3.4 @ 20	30.4 @ 10	660	_	15.45	15.09	14.75	14.25
308128CH	LJ4071-22 BRRN	- :	3.60"	Red	5 x 7 CC/AR	14	3.4 @ 20	30.4 @ 10	660	_	15.45	15.09	14.76	14.25
308136CH	LJ4071-22 BWRN	_	3.60"	Red	5 x 7 CC/AR	14	3.4 @ 20	30.4 @ 10	660	_	20.65	16.49	14.75	14.25
* CA-Commo	* CA-Common Anode/CC-Common Cathode/AC-Anode Column/CR-Cathode Row/AR-Anode Row # LHDP-Left Hand Decimal Point / RHDP-Right Hand Decimal Point													

#### LED Tester

This pocket-size LED tester makes it easy to check functionality, color, brightness and uniformity. Plug any leaded LED into one of 12 positions on the socket strip to test at current ratings from 2-50mA. The seven middle positions on the strips are set at 10mA



MEW

allowing comparison of LEDs in those spaces. Requires: 9V battery (recommend P/N 198791CH, pg 183)

Size: 3.2"L x 2.4"W x 0.9"H

Part No.	Description	Price
354968CH	LED tester	\$8.55

#### Practical Electronics Book for Inventors

McGraw-Hill Publishing Provides information needed for practical use in a format you can understand. With hand drawn illustrations, this learn-as-you-go guide shows you what a particular

device does, ľooks like and compares it with other similar devices. (604 pages, 2000)

• Size: 8.4" x 11" • Weight: 2.8 lbs.

Part No.	Description	Price
174529CH	Practical Electronics Book for Inventors	\$39.95

#### **Electronic Pocket Reference**

#### Third Edition McGraw-Hill Publishing

A pocket reference manual that provides definitions, passive component equations and color coding, parameters of standard semi-conductors, linear circuits, filters, power supply and regulation, electronic measurement and mathematical tables and formulas. (529 pages, 2000)



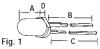
• Size: 4.0" x 6.0" • Weight: 0.9 lbs.

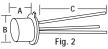
Part No.	Description	Price
174481CH	Electronics Pocket Reference	\$26.95

# Infrared and Visible Light Emitters and Detectors

- Use for remote control and/or for fiber optics
- P/N 133946CH: Can be used with cameras, see page 206 (peak emission wavelength: 940nm @ 20mA)









	Mr. Cross				Diameter	iameter   Dimensions (inches)						Pric	cing			
Part No.	Ref. No.	Fig.	Description	Size	inch/mm	Α	В	С	D	Vf @ If	nm	mWatts	1	10	100	1000
112150CH	LIR2043	1	Infrared emitter diode (GaAs)	T1	0.125/3	0.18	0.95	0.98	0.03	1.2V @ 20mA	940	5	\$.22	\$.18	\$.14	\$.12
133946CH	SLI-0308CP	1	Infrared emitter diode (GaAs)	T1	0.12/3	0.22	0.98	1.00	0.03	1.3V @ 50mA	940	4	.62	.53	.40	.31
112176CH	LPT2023	1	Infrared phototransistor	T1	0.12/3	0.18	0.95	0.98	0.03	_	940	_	.39	.29	.19	.15
106526CH	LVIR3333	1	Infrared emitter diode (GaAs)	T13/4	0.200/5	0.34	0.78	0.84	0.04	1.2V @ 20mA	940	8	.39	.29	.19	.15
112168CH	LPT3313	1	Infrared phototransistor	T13/4	0.200/5	0.31	1.05	1.10	0.04	_	940	_	.36	.30	.24	.20
120221CH	BPW77NA	2	Visible light phototransistor	TO-18	_	0.24	0.19	0.52	_	_	850	_	1.59	1.55	1.49	1.39
172321CH	OP133	3	Infrared emitter diode (GaAs)	TO-46	_	0.22	0.18	1.05	0.20	1.4V @ 100mA	935	5	2.15	1.95	1.69	1.59

## LED Cabinet Kit and LED Mounting Hardware

#### LEDs & LED Mounting Hardware Kit | LED Mounting Hardware

#### Includes:

· 20-drawer component cabinet (319599CH), 20 clear plastic drawers (319601CH), 20 clear dividers (319610CH), pg 244 and labels



- 10 ea. standard-output LEDs (34657CH, 114673CH, 114681CH, 34606CH, 175695CH, 34825CH, 34690CH, 11359CH, 34761CH, 34711CH, 104248CH, 104256CH, 34673CH), pg 59 and 136493CH, above
- 10 ea. HLMP series LEDs (11797CH), pg 58
- 10 ea. LED lens mount (14277CH), right
- · 100 ea. LEDs (94529CH, 135597CH), pg 57

• 100 ea. LED mounting hardware (95513CH, 23077CH), right

SAVE \$25

(	, ===:.,	,	0.	
Part No.	Description	Wt. (lbs.)	1	10
84996CH	560 pcs. kit	5.0	\$66.95	\$60.25











Prepackaged: order in 23077CH 95513CH 95521CH increments of 10, 100 or 1000

	Mfr. Cross			Mounting	Panel	Pricing		
Part No.	Ref. No.	Description	Color	Hole Dia.	Thickness	10	100	1000
95513CH	LMH100	T1 snap-in	Black	.185"	Up to .070"	\$.08	\$.07	\$.04
23077CH	LMH200	T1¾ ring & clip	Black	.257"	Up to .125"	.15	.135	.12
95521CH	LMH250	Rect. snap-in	Black	.306" x .202"	Up to .092"	.20	.17	.127



and 34850CH, pg 56

#### T13/4 Cliplite® LED Lens Mount

• Requires no assembly tools, just snap in

Material: lens – polycarbonate; spacer – nylon

 Increases viewing angle to 180° · Helps guard against electrostatic discharge up to 16kV

29612C







Н		
		-

Fig. 1 (5mm) Fig. 2 (5mm)

					Mounting	Panel		Pri	cing	
Part No.	Product No.	Description	Color	Fig.	Hole Dia.	Thickness	1	10	100	1000
14277CH	CLF280CTP	T13/4	Clear	1	.25"	.063"125"	\$.25	\$.19	\$.16	\$.14
29612CH	CLF280RTP	T13/4	Red	1	.25"	.063"125"	.28	.247	.219	.188
124927CH	CLB300CTP	T1¾	Clear	2	.25"	.031" – .25"	.25	.19	.16	.14

Part No.

215773CH

215781CH

215790CH

215749CH

215757CH

215765CH

215714CH

215722CH

215731CH

#### **Quantity SAVE**

Mfr. Cross Ref. No.

R9-46B-W100-12V-R

R9-46B-W100-12V-Y 3

R9-46B-W100-12V-G

R9-55B-W130-12V-R

R9-55B-W130-12V-Y

R9-55B-W130-12V-G

R9-71B-05-12V-R

R9-71B-05-12V-G

R9-71B-05-12V-Y O

#### **Incandescent Panel Mount Lamps**

Voltage

12

12

12

12

12

12

12

12

12



· 215781CH/215790CH/215773CH: wire length - 3.9" (100mm) 215749CH/215757CH/215765CH: wire length - 4.9" (125mm)

215714CH/215722CH/215731CH: solder terminals - 0.196" (5mm)

Blue Part No. = Limited Quantity Available

1

2

2

3



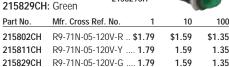
#### **Neon Panel Mount Lamps**

· Input voltage: 120V

 Mounting hole diameter: 5/8" (16mm) Solder terminals:

215802CH 0.196" (5mm)

215802CH: Red 215811CH: Yellow



215829CF

# Lamps and LED Accessories

1.45

1.61

1.19

(1.37)



#### T1 & T1<sup>3</sup>/<sub>4</sub> Cliplite<sup>®</sup> Lens and Conxrite<sup>®</sup> Cable Assembly

5/8" (16mm)

5/8" (16mm)

Cliplite® Lens: • Material: (lens) polycarbonate: (ring) polyproplyene (UL Listed)

Mounts through front panel in 0.171" hole diameter, panel thickness: 1/32" to 3/32"

Conxrite® Cable Assembly: • Terminals: phosphor bronze, tin-plated

Connector socket and ring/header connector: thermoplastic (UL Listed) Wire: 22AWG, 7 strand copper, insulated  Quantity SAVE										
Part No.	Product No.	Size	Description	1	10	100	1000			
143183CH	SMC170CTP	T1	Clear Cliplite® lens	\$.23	\$.203	\$.169	\$.129			
143132CH	CMC321CTP	T13/4	Clear Cliplite® lens	.25	.22	.18	.14			
142007011	DE2100	T1	0 E" apple accomply	1 25	1 12	1 05	00			

Yellow

Green

roduct No.	Size	Description		10	100	1000
MC170CTP	T1	Clear Cliplite® lens	\$.23	\$.203	\$.169	\$.129
MC321CTP	T13/4	Clear Cliplite® lens	.25	.22	.18	.14
E2108	T1	8.5" cable assembly	1.25	1.13	1.05	.99
E2108	T13/4	8.5" cable assembly	1.29	1.25	1.19	1.15
E2118	T1¾	18" cable assembly	1.55	1.39	1.20	1.09
	MC170CTP MC321CTP E2108 E2108	MC170CTP T1 MC321CTP T1 <sup>3</sup> / <sub>4</sub> E2108 T1 E2108 T1 <sup>3</sup> / <sub>4</sub>	MC170CTP T1 Clear Cliplite* lens MC321CTP T1¾ Clear Cliplite* lens E2108 T1 8.5" cable assembly E2108 T1¾ 8.5" cable assembly	MC170CTP         T1         Clear Cliplite* lens         \$.23           MC321CTP         T1¾         Clear Cliplite* lens         .25           E2108         T1         8.5* cable assembly         1.25           E2108         T1¾         8.5* cable assembly         1.29	MC170CTP         T1         Clear Cliplite* lens         \$.23         \$.203           MC321CTP         T1¾         Clear Cliplite* lens         .25         .22           E2108         T1         8.5" cable assembly         1.25         1.13           E2108         T1¾         8.5" cable assembly         1.29         1.25	MC170CTP         T1         Clear Cliplite* lens         \$.23         \$.203         \$.169           MC321CTP         T1³/ <sub>4</sub> Clear Cliplite* lens         .25         .22         .18           E2108         T1         8.5" cable assembly         1.25         1.13         1.05           E2108         T1³/ <sub>4</sub> 8.5" cable assembly         1.29         1.25         1.19

236427CH

#### **LED Panel-Mount Indicators**

- Easy panel installation
- Panel/status/instrument indicators

141111CH/141129CH/141137CH: Chrome housing

236419CH 236427CH/236419CH: Black nylon housing



	Mfr. Cross	LED		Dimensions (in.)		Mounting		Pricing				
Part No.	Ref. No.	Size	Color	L	Α	В	Hole	Vf @ If	1	10	100	1000
236427CH	5102H5-12V	T13/4	Green	.53	6.0	6.0	.25"	12V @ 15mA	\$1.25	\$1.12	\$.90	\$.68
236419CH	5102H1-12V	T13/4	Red	.53	6.0	6.0	.25"	12V @ 15mA	1.19	1.07	.86	.64
141111CH	L922SRD	T1	Red	.56	.34	.25	.23"	12V @ 20mA	.79	.60	.52	.45
141129CH	L913RD	T1	Red	.56	.39	.32	.24"	12V @ 20mA	1.09	.81	.69	.61
141137CH	L917RD	T13/4	Red	.70	.55	.47	.31"	12V @ 20mA	.89	.79	.71	.55



#### Cluster-Type T1<sup>3</sup>/<sub>4</sub> LED Lamps

- Cluster-type red/green T1¾ LEDs
- 660nm for red/570nm for green
- Lens: water clear
   Common anode
- · 3 lead wires **150914CH: 50 Cluster** (30 green/20 red) **150922CH: 14 Cluster** (8 green/6 red)

Lead Mounting Dimensions Pricing Part No Product No. Vf @ If mcd @ mA Wire Hole Dia. (Dia." x L") 100 150914CH LCR5250A-79 20.5V @ 40mA 12 000 @ 40 2 07 x 1 98 \$13.19 \$11.99 \$11.35 16" M4 LCR2614B-79 10V @ 20mA 1.02 x 1.51 150922CH 1950@20

### Miniature Fluorescent Lamps

239610CH

239636CH

Vallamen

Add flourescent color to your projects. computer case, car and other displays with these economical lights. Now you can easily and affordably mount these 4" light tubes to add cool cold-cathode effects and give your display

a richer, trick look and feel. Optional power supply below converts 12VDC input into 180V - 800V output needed by lights.

Decid No. December

Part No.	Prod. No.	Description	1	10	25
239610CH	FLW1	White light .	\$9.95	\$8.95	\$7.95
239572CH	FLB1	Blue light	9.95	8.95	7.95
239581CH	FLBL1	Black light .	9.95	8.95	7.95
239628CH	FLY1	Yellow light	9.95	8.95	7.95
239601CH	FLP1	Pink light	9.95	8.95	7.95
239599CH	FLG1	Green light .	9.95	8.95	7.95
239636CH	FLPS1	12VDC PS .	9.95	8.95	7.95

#### **Lowest Price Guarantee**

Found a product at a lower print advertised price? We'll beat that price by 10% right down to our cost!

### CdS Photocells

150914CH

 Applications include: auto-focus lenses, exposure meters, contrast controls for TVs, dimmer or light switches, flame detectors, electronic toys, street lamp switches, optocouplers • Generate variable signal based on detection of light levels • Soldering: 230°C for 3 seconds • Operating temperature: -30°C to +70°C • Cadmium Sulfide (CdS)

			Mfr. Cross	Rat	ing	Resista	ince (Ω)	Size (	inches)	Lead Spacing	Lead Length	d Length Pricing		ing	
		Part No.	Ref. No.	Vp	mW	Dark	Light	Α	В	(inches)	(inches)	1	10	100	1000
,   B	///	136055CH	CDST08	50	200	100k	10k	0.40	0.44	0.30	1.50	\$.89	\$.80	\$.69	\$.52
		202366CH	CDS0029001	150	90	300k	4k	0.14	0.17	0.10	1.02	1.69	1.52	1.22	.91
A		120310CH	CDS0029004	150	90	2M	27k	0.14	0.17	0.10	1.44	1.45	1.20	1.09	.99
7		202374CH	CDS0029006	150	90	5M	80k	0.14	0.17	0.10	1.02	\$1.7 <sup>9</sup> 1.65	1.45	1.16	.87
1203	120299CH	202391CH	CDS0029203	150	90	10M	5k	0.14	0.17	0.10	1.02	1.49	1.35	1.19	1.09
1202		202382CH	CDS0029008	150	90	20M	10k	0.14	0.17	0.10	1.02	1.49	1.34	1.21	.99
		202420CH	CDS0018003	150	100	500k	16k	0.17	0.20	0.13	1.02	1.55	1.35	1.25	1.05
		202403CH	CDS0018001	150	100	200k	3k	0.17	0.20	0.13	1.02	1.49	1.35	1.19	1.09
		202411CH	CDS0018006	150	100	5M	80k	0.17	0.20	0.13	1.02	.69	.65	.59	.55
		202438CH	CDS0037004	200	150	500k	15k	0.25	0.29	0.20	1.02	1.49	1.34	1.07	.80
		120301CH	CDS0037001	200	150	300k	3k	0.25	0.29	0.20	1.02	1.79	1.59	1.45	1.29
20.		120299CH	CDS0045001	350	400	300k	8k	0.37	0.43	0.30	1.44	1.79	1.59	1.45	1.29
20.	2430011	202454CH	CDS0045003	350	400	1M	12k	0.37	0.43	0.30	1.44	1.69	1.55	1.35	1.15

# Incandescent and Neon Lamps



Incand	lescent	Lamps
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\* Prepackaged: order in

### Incandescent Lamps (Continued)

\* Prepackaged: order in

* Prepackaged: order in increments of 5, 10 or 100							Incandescent Lamps (Continued)					* Prepackaged: order in increments of 5, 10 or 100							
	Mfr. Cross							cing			Mfr. Cross							cing	$\neg$
Part No.	Ref. No.	Fig.	Description	Volts	MSCP	1	5	10	100	Part No.	Ref. No.	Fig.	Description	Volts	MSCP	1	5	10	100
209381CH	13	1	G3 1/2 miniature screw	3.7	.98	\$.79	\$.75	\$.69	\$.59	209912CH	1835	3	T3 1/4 miniature bayonet	55.0	1.1	\$.49	\$.39	\$.29	\$.24
209390CH	14	1	G3 1/2 miniature screw	2.47	.50	.55	.52	.49	.45	209921CH	1847	3	T3 1/4 miniature bayonet	6.3	.38	.49	.39	.29	.24
209402CH	40	2	T3 1/4 miniature screw	6.3	.50	*	.29	.19	.15	209939CH	1850	3	T3 1/4 miniature bayonet	5.0	.25	.49	.39	.29	.24
209411CH	44	3	T3 1/4 miniature bayonet	6.3	.90	*	.22	.17	.13	209947CH	1864	3	T3 1/4 miniature bayonet	28.0	3.0	.49	.39	.29	.24
209429CH	46	2	T3 1/4 miniature screw	6.3	.90	*	.37	.32	.27	209955CH	1866	3	T3 1/4 miniature bayonet	6.3	.65	*	.39	.29	.19
209437CH	47	3	T3 1/4 miniature bayonet	6.3	.50	*	.22	.17	.13	209963CH	1891	3	T3 1/4 miniature bayonet	14.0	2.0	.49	.39	.29	.19
209445CH	50	1	G3 <sup>1</sup> / <sub>2</sub> miniature bayonet	7.5	1.0	.59	.54	.49	.44	209971CH	1893	3	T3 1/4 miniature bayonet	14.0	2.0	.49	.39	.29	.24
210403CH	51	4	G3 <sup>1</sup> / <sub>2</sub> miniature bayonet	7.5	1.0	*	.35	.29	.24	141073CH	2182	16	T1 3/4 wire terminal	14.0	.30	.49	.44	.39	.34
209453CH	53	4	G3 1/2 miniature bayonet	14.4	1.0	.49	.44	.39	.29	141065CH	2200	16	T1 3/4 wire terminal	5.0	.05	.59	.54	.49	.44
210411CH	55	5	G4 1/2 miniature bayonet	7.0	2.0	*	.20	.14	.09	141057CH	6833	17	T 3/4 wire terminal	5.0	.05	1.29	1.15	.99	.89
209461CH	73	6	T1 3/4 wedge	14.0	.30	*	.24	.19	.16	209998CH	7219	12	T1 wire terminal	12.0	.15	*	.29	.25	.19
209470CH	85	6	T1 3/4 wedge	28.0	.30	*	.24	.21	.17	210008CH	7328	18	T1 <sup>3</sup> / <sub>4</sub> bi-pin	6.0	.60	.89	.79	.69	.59
209488CH	86	6	T1 3/4 wedge	6.3	.40	*	.24	.19	.15	210016CH	7335	10	T1 3/4 midget flange	5.0	.15	.69	.59	.49	.39
209496CH	93	7	S-8 sngl contact bayonet	12.8	15.0	.59	.54	.49	.44	210024CH	7341	10	T1 3/4 midget flange	28.0	.65	.79	.69	.59	.49
209509CH	161	8	T3 1/4 wedge	14.0	1.0	*	.25	.19	.15	141006CH	7361	18	T1 3/4 bi-pin	5.0	.05	.99	.89	.79	.69
209517CH	168	8	T3 1/4 wedge	14.0	3.0	*	.24	.19	.14	210032CH	7382	18	T1 3/4 bi-pin	14.0	.30	.49	.39	.35	.29
209525CH	194	8	T3 1/4 wedge	14.0	2.0	*	.24	.19	.14	210041CH	7387	18	T1 3/4 bi-pin	28.0	.30	.49	.45	.39	.29
209533CH	222	9	GTL-3 miniature screw	2.25	_	*	.29	.24	.22	210059CH	7632	19	T1 <sup>1</sup> / <sub>4</sub> bi-pin	28.0	.32	1.29	.99	.89	.79
209541CH	259	8	T3 1/4 wedge	6.3	.65	*	.24	.19	.16	210067CH	7683	20	T1 bi-pin	5.0	.05	1.19	.99	.89	.79
209550CH	313	3	T3 1/4 miniature bayonet	28.0	3.5	*	.25	.19	.16	210075CH	7715	20	T1 bi-pin	5.0	.15	1.19	.99	.89	.79
209568CH	327	10	T1 3/4 midget flange	28.0	.34	*	.29	.24	.22	210083CH	7839	20	T1 bi-pin	28.0	.15	1.19	.99	.89	.79
209576CH	328	10	T1 3/4 midget flange	6.0	.60	.49	.44	.39	.34	210227CH	6PSB	21	T2 tel. slide base type 5	6.0	550	.79	.69	.59	.49
209584CH	330	10	T1 3/4 midget flange	14.0	.50	*	.39	.34	.29	309673CH	6S6	25	S6 candelabra	120	_	.84	.80	.76	.72
209592CH	334	11	T1 3/4 midget groove	28.0	.34	*	.39	.35	.29	210112CH	12ESB	21	T2 tel. slide base type 5	12.0	650	.69	.59	.55	.49
209605CH	335	15	T1 3/4 midget screw	28.0	.34	.49	.44	.39	.32	210121CH	12PSB	21	T2 tel. slide base type 5	12.0	2000	.69	.65	.59	.49
209613CH	344	10	T1 3/4 midget flange	10.0	.002	.99	.89	.79	.69	309681CH	20T6 <sup>1</sup> / <sub>2</sub>	24	T6 1/2 20W intermediate	120	_	1.69	1.59	1.55	1.45
209621CH	345	10	T1 3/4 midget flange	6.0	.03	.59	.49	.45	.35	210139CH	24ESB	21	T2 tel. slide base type 5	24.0	850	.69	.65	.59	.49
209630CH	370	10	T1 <sup>3</sup> / <sub>4</sub> midget flange	18.0	.15	.89	.79	.69	.59	210147CH	24MB	22	T2 miniature bayonet	24.0	3000	.99	.89	.79	.69
209648CH	376	10	T1 3/4 midget flange	28.0	.34	.59	.49	.39	.29	210155CH	24PSB	21	T2 tel. slide base type 5	24.0	3000	.59	.55	.49	.45
209656CH	379	11	T1 <sup>3</sup> / <sub>4</sub> midget groove	6.3	.40	.69	.59	.49	.39	210163CH	28ESB	21	T2 tel. slide base type 5	28.0	1500	.79	.69	.59	.49
209664CH	381	10	T1 <sup>3</sup> / <sub>4</sub> midget flange	6.3	.40	.49	.45	.39	.29	210171CH	28MB	22	T2 miniature bayonet	28.0	1600	.89	.79	.69	.59
209672CH	382	10	T1 3/4 midget flange	14.0	.30	.49	.45	.39	.29	210180CH	28PSB	21	T2 tel. slide base type 5	28.0	1600	.69	.59	.49	.45
209681CH	385	10	T1 <sup>3</sup> / <sub>4</sub> midget flange	28.0	.15	.49	.45	.38	.29	210198CH	48PSB	21	T2 tel. slide base type 5	48.0	1800	.89	.79	.69	.59
209699CH	386	11	T1 3/4 midget groove	14.0	.30	*	.39	.33	.27	210201CH	60MB	22	T2 miniature bayonet	60.0	2200	.89	.79	.69	.59
209701CH	387	10	T1 3/4 midget flange	28.0	.30	*	.37	.25	.23	210219CH	60PSB	21	T2 tel. slide base type 5	60.0	2200	.69	.59	.55	.49
209710CH	388	11	T1 3/4 midget groove	28.0	.30	*	.35	.29	.25	210091CH	120MB	22	T2 miniature bayonet	120.0	1200	.69	.65	.59	.55
209728CH	394	10	T1 3/4 midget flange	12.0	.12	.49	.45	.39	.32	210104CH	120PSB	21	T2 tel. slide base type 5	120.0	1200	.69	.65	.59	.55
209736CH	656	8	T3 1/4 wedge	28.0	.62	*	.24	.19	.15	210340CH	PR2	23	B3 1/2 sngl cont. mini flange	2.38	.80	*	.24	.20	.15
209752CH	657	8	T3 <sup>1</sup> / <sub>4</sub> wedge	28.0	.62	*	.25	.20	.15	210358CH	PR3	23	B3 1/ <sub>2</sub> sngl cont. mini flange	3.57	1.5	*	.24	.20	.15
202100CH	683 685	12	T1 wire terminal	5.0 5.0	.05	.49	.39	.35	.28	210366CH	PR4 PR6	23	B3 1/ <sub>2</sub> sngl cont. mini flange	2.33	.40 .45	*	.24	.20	.15 .15
209761CH 209779CH	715	13	T1 sub midget flange T1 wire terminal	5.0	.05	.89	.89 .79	.69	.59	210374CH	PKO	23	B3 <sup>1</sup> / <sub>2</sub> sngl cont. mini flange	2.47	.45	*	.24	.20	. 15
209779CH 209787CH	755	3		6.3	.33	.49			.30		2.2		A de		2		1	-	
209787CH 209795CH	756	3	T3 <sup>1</sup> / <sub>4</sub> miniature bayonet T3 <sup>1</sup> / <sub>4</sub> miniature bayonet	14.0	.33	.59	.44	.37	.39		1			4		1	-	1	
209793CH 209808CH	757	3	T3 <sup>1</sup> / <sub>4</sub> miniature bayonet	28.0	.62	.39	.35	.32	.27		Fig. 1		Fig. 2	1	Fig. 3	•		Fig.	
210438CH	1156	7	S-8 sngl contact bayonet	12.8	32	.49	.45	.32	.35	Neon L	.amps							ed: order	
Z 10430CH	1130		3-6 stigi contact payonet	12.0	32	.47	.43	.39	.33		1, ,					inc	rements	of 5, 10	01 100



	Mfr. Cross					Pric	ing	
Part No.	Ref. No.	Fig.	Description	Voltage	1	5	10	100
27351CH	A1A (NE-2)	1	Wire terminal	65-120	*	\$.35	\$.31	\$.26
210243CH	A1B	1	Wire terminal	65-120	*	.28	.25	.24
210251CH	A1C	1	Wire terminal	65-120	*	.39	.29	.25
210260CH	A9A (NE-2E)	1	Wire terminal	65-120	*	.29	.25	.19
210278CH	B1A (NE-51)	2	T3 1/4 miniature bayonet	65-120	.79	.75	.69	.59
210286CH	B2A (NE-51H)	2	T3 1/4 miniature bayonet	65-120	.69	.59	.49	.39
210294CH	B7A (NE-45)	3	T4 1/2 candelabra screw	65-120	3.99	3.49	2.99	2.49
210307CH	B9A (NE-48)	4	T4 1/2 D.C. bayonet	65-120	2.99	2.49	1.99	1.79
210315CH	C2A (NE-2H)	1	Wire terminal	65-120	*	.39	.35	.26

1157

1450

1813

1815

1816

1818

1819

1820

1821

1822

1829

14

3

15

S-8 double contact index

G3 <sup>1</sup>/<sub>2</sub> miniature bayonet

T3 1/4 screw

12.8/14

24.0

14.4

14.0

24.0

28.0

28.0

28.0

36.0

28.0

32/3

.23

.86

1.4

3.0

3.3

.34

1.6

3.4

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1.0

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210446CH

209816CH

209824CH

209832CH

209841CH

209859CH

209867CH

209875CH

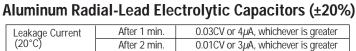
209883CH

209891CH

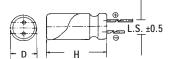
209904CH







† CROSS REFERENCES: Elna: RC2/RE2; IC: RAR/RSS; Marcon: SEM/SSM; Nichicon: LB/VX/USA/SR/SA; Rubycon: MS7/TWSS; Sprague: 501D/513D; UCC: SME/SRE/SRA/SRG; Panasonic: KA/KS/SU



### **Quantity SAVE**

### 85°C - General Purpose

*	Prepackaged:	order	in	increments	of	10.	100 or	500

ements of 10, 100 or 500	* Prepackaged: order in increments of 10, 100 or 50
	· · · · · · · · · · · · · · · · · · ·

Part		Mfr. Cross	Value		Size (mm)				7	Г		Mfr. Cross	Value		Size (mm)				
3394640 64725 17 299 5711120	Part No			Voltage		1			500		Part No					1			500
1985    1985										- H			_						
3040000																			·
9419005   16190   1   507			1 1										i	i					
298250F   10/50   1   500   5.11   1   500   5.11   1   500   5.11   2   5   6.05   6.													:	:					
338469FCH ANT/960   1   200			: :										:	:					
338896001 NA1759 1 2 200 NA1715 2 8 8 0.05 0.09 0.03 33866001 NA1759 1 10 100 100 100 100 100 100 100 100 1													:						
334960F N-2216																			
979700CH 822970 22 5070 5 x11x2																			
1990    1990																			
133990410   133990   13   500   5   11   2   * 0.05   0.4   0.25   0.15   0.			_							- 1									
33404601 AA-7750 4.7			1 1		-								1						
3304000H RA-775 4.7 29V 54.11 x 20																			
33095901 N3750 4 77 507 6 811x2 ** 0.02 0.07 0.09 937704 R22035 22 357 8.12x5 ** 0.0 0.8 0.7 19883005 R101/10 1 0 1 0 1 0 1 0 1 0 1 0 1 0 0 0 0																			
1988B00  PARTICO   PARTI														:					
98836H RIGHING   10   10   10   10   10   10   10   1		R4.7/50	4.7	50V		*	.042	.037	.029				:	1		*	.09	.08	.07
94210H SR1025 10 10 259 4 x5 x15 2 = 0.09 0.07 0.05 0.04 93970H R30016 320 1000 12x 2x 5x 4x 57 52 47 37 0.00 94390H R30015 10 359 5x 7x 2 = 0.09 0.07 0.05 0.04 93970H R30015 30 30 259 8x 12x 3 = 0.07 0.05 0.04 93970H R30015 30 30 259 8x 12x 3 = 0.07 0.05 0.05 0.05 0.04 93970H R30015 30 30 259 8x 12x 3 = 0.07 0.05 0.05 0.05 0.05 0.05 0.05 0.05						*							:						
942200H SR1005 10 359 5x5x2 # .09 .07 .065 98890H R330J16 33 0 tol		R10J/16	10		5 x 11 x 2	*	.045	.03	.025		330510CH	RA220/63	220	63V			.235	.219	
9439901 R10005 10 939V 5571x2 * 0.07 0.05 0.04 93770H R30025 30 25V 811x25 * 40 2.05 0.05 0.04 181 1990460H R30100 10 0.05 V 511x2 * 0.06 0.05 199070H R30100 30 0.00 15V 10x20x50 2.6 2.5 2.00 181 1990460H R30100 10 10 100 0 10 100 0 10 100 0 10 10	94211CH	5R10/25	10	25V	4 x 5 x 1.5	*	.13	.08	.05		199081CH	R220J/100	220	100V	12 x 25 x 5 - <del>\$0</del>	.75 .52	.47	.37	(.28)
29892CH R10F00 10 50V 5 \$11 x 2	94220CH	5R10/35	10	35V	5 x 5 x 2	*	.09	.07	.065		198890CH	R330J/16	330	16V	8 x 11 x 3.5	*	.14	.07	.06
330481CH   RA10/63   10   63V   5XT1X 2.0   * 9.66   047   0.08   330472CH   RA30/50   3.06   50V   10 x 20 x 5.0   2.6   235   2.09   181	94369CH	7R10/35	10	35V	5 x 7 x 2	*	.11	.06	.04		93797CH	R330/25	330	25V			.144	.10	.089
1990B6CH   R101700   10   100V   6x11x 25   * 0.7   0.6   0.5   1990P9CH   R33U1700   330   100V   12x 25 x 5 cf   15   6.6   5.4   4.33   322   330552CH   R410250   10   250V   10 x 15x 5.0   * 1.6   .133   .114   93810CH   R47016   4.70   10V   8x11x 3.5   * 1.03   .063   .067   330562CH   R410250   10   250V   10 x 20x 5.0   .25   .26   .20   .171   .131   .103   .099   .330532CH   R410250   10   350V   10 x 20x 5.0   .25   .26   .20   .171   .131   .103   .099   .33054CH   R410250   10   .350V   10 x 20x 5.0   .25   .26   .20   .171   .131   .103   .099   .33054CH   R410250   .20	29892CH	R10/50	10	50V	5 x 11 x 2	*	.067	.055	.045		198977CH	R330J/35	330	35V	10 x 12 x 5 - <del>\$0</del>	45 .20	.18	.144	.108
33058CH RA10160 10 160V 8x11x35 * 1.122 1.14 0.93 0.3058CH RA1010 10V 8x11x35 * 1.03 0.083 0.679 0.000	330481CH	RA10/63	10	63V	5 x 11 x 2.0	*	.056	.047	.038		330472CH	RA330/50	330	50V		_	.235	.209	.181
33064CH R10/250	199048CH	R10J/100	10	100V	6 x 11 x 2.5	*	.07	.06	.05		199099CH	R330J/100	330	100V	12 x 25 x 5 - <del>\$1</del>	.15 .60	.54	.43	.32
330641CH RA10/350	330552CH	RA10/160	10	160V	8 x 11 x 3.5	*	.122	.114	.093		330384CH	RA470/10	470	10V	8 x 11 x 3.5	*	.103	.083	.067
330641ch   Ra10/450   10   4509   13 x 21 x 50   46   414   3.33   2.41   93818ch   Ra70/55   470   359V   10 x 16 x 5   4   1.1   1.5   1.3   19884cch   R221/15   22   259   5 x 11 x 2   # 0.04   0.035   0.026   9382ch   Ra70/50   470   509V   10 x 20 x 5   3.3   2.1   1.44   189918ch   R221/25   22   259V   5 x 11 x 2   # 0.09   0.03   0.025   3.30   3.05   199101ch   Ra70/10   470   100V   10 x 25 x 7.5   1.15   7.8   69   5.8   199402ch   R221/35   22   359V   5 x 11 x 2   # 0.02   0.06   0.034   3.30   0.05	330608CH	RA10/250	10	250V	10 x 15 x 5.0	*	.16	.133	.114		93810CH	R470/16	470	16V	8 x 11 x 3.5	*	.11	.103	.099
19884CH R22J/15 22 25V 5x11x2	330632CH	RA10/350	10	350V	10 x 20 x 5.0	.25	.226	.20	.171		31182CH	R470/25	470	25V	8 x 14 x 5	*	.133	.111	.10
189918CH   R22J/25   22   25V   5x11x2   ** 0.039   0.03   0.025   0	330641CH	RA10/450	10	450V	13 x 21 x 5.0	.46	.414	.333	.241		93818CH	R470/35	470	35V	10 x 16 x 5	*	.17	.15	.13
19884CH R231/16 47 16V 5x11x2 # .04 .03 .025 .03 .03 .03 .03 .027 .02	198846CH	R22J/16	22	16V	5 x 11 x 2	*	.04	.035	.026		93826CH	R470/50	470	50V	10 x 20 x 5	.32	.31	.21	.144
93738CH R22/50	189918CH	R22J/25	22	25V	5 x 11 x 2	*	.039	.033	.025		199101CH	R470J/100	470	100V	16 x 25 x 7.5	1.15	.78	.69	.58
199956CH R2ZJ/100	198942CH	R22J/35	22	35V	5 x 11 x 2	*	.029	.026	.023		330456CH	RA680/25S	680	25V	8 x 16 x 3.5	.97	.87	.78	.70
330659CH RA22/450	93738CH	R22/50	22	50V	5 x 11 x 2	*	.062	.056	.039		330392CH	RA1000/10	1000	10V	8 x 14 x 3.5	*	.132	.114	.091
198854CH R33J/16 33 16V 5x11x2 * 0.34 0.29 022 986045CH R313J/25 50 3 25V 5x11x2 * 0.37 0.32 023 023 023 023 023 023 023 023 023 0	199056CH	R22J/100	22	100V	6 x 11 x 2.5	*	.15	.09	.06		30016CH	R1000/16	1000	16V	10 x 16 x 5	*	.16	.14	.12
198926CH R33J/25 33 50V 5x11x2	330659CH	RA22/450	22	450V	16 x 26 x 7.5	.58	.517	.456	.39		93834CH	R1000/25	1000	25V	10 x 20 x 5	*	.25	.23	.18
93746CH R33/50 33 50V 6 x 11 x 2.5	198854CH	R33J/16	33	16V	5 x 11 x 2	*	.034	.029	(022)		286045CH	Q399L	1000	35V	12 x 20 x 5	.50	.46	.41	.33
199064CH   R33J/100   33	198926CH	R33J/25	33	25V	5 x 11 x 2	*	.037	.032	024		93842CH	R1000/50	1000	50V	13 x 25 x 5	.58	.51	.455	.38
330667CH RA33/450 33 450V 16 x 30 x 7.5 1.09 .97 .86 .62 133146CH R2200/16 220 16V 10 x 20 x 5 .36 .31 .267 .244 135302CH R47/10 47 10V 5 x 12 x 2 * .04 .03 .025 30534CH R2200/25 2200 25V 13 x 21 x 5 .61 .545 .444 .333 19886CH R47/25 47 25V 5 x 11 x 2 * .05 .04 .032 .023 198897CH R2200/35 2200 25V 13 x 21 x 5 .61 .545 .444 .333 19885CH R47/25 47 25V 5 x 11 x 2 * .05 .04 .032 .023 198897CH R3300/16 .330 16V 12 x 25 x 5 .49 .39 .33 .29 198895CH R47/25 47 25V 5 x 11 x 2 * .05 .04 .033 .30892CH R3300/16 .330 .16V 12 x 25 x 5 .49 .39 .33 .29 198895CH R47/25 .300 .50 .50 .50 .50 .50 .50 .50 .50 .50 .	93746CH	R33/50	33	50V	6 x 11 x 2.5	*	.055	.05	.045		302578CH	RS1000/50	1000	50V	18 x 21 x 7.5	.45	.40	.36	.31
330667CH RA33/450 33 450V 16 x 30 x 7.5 1.09 .97 .86 .62 133146CH R2200/16 220 16V 10 x 20 x 5 .36 .31 .267 .244 135302CH R47/10 47 10V 5 x 12 x 2 * .04 .03 .025 30534CH R2200/25 2200 25V 13 x 21 x 5 .61 .545 .444 .333 19886CH R47/25 47 25V 5 x 11 x 2 * .05 .04 .032 .023 198897CH R2200/35 2200 25V 13 x 21 x 5 .61 .545 .444 .333 19885CH R47/25 47 25V 5 x 11 x 2 * .05 .04 .032 .023 198897CH R3300/16 .330 16V 12 x 25 x 5 .49 .39 .33 .29 198895CH R47/25 47 25V 5 x 11 x 2 * .05 .04 .033 .30892CH R3300/16 .330 .16V 12 x 25 x 5 .49 .39 .33 .29 198895CH R47/25 .300 .50 .50 .50 .50 .50 .50 .50 .50 .50 .	199064CH	R33J/100	33	100V	8 x 11 x 3.5	*	.089	.08	.072		199110CH	R1000J/100	1000	! 100V	18 x 40 x 7.5 \$2	992.29	2.06	1.65	1.24
135302CH R47/10 47 10V 5 x 12 x 2	330667CH	RA33/450	33	450V	16 x 30 x 7.5	1.09	.97	.86	.62		133146CH	R2200/16	2200	16V			.31	.267	.244
93754CH R47/25 47 25V 5 x 11 x 2 * .053 .037 .029 198897CH R3300/16 330 16V 12 x 25 x 5 .49 .39 .33 .29 198951CH R47/35 47 35V 5 x 11 x 2 * .05 .04 .03 30892CH R3300/25 330 25V 13 x 29 x 5 .79 .72 .545 .48 31115CH R47/50 47 50V 6 x 11 x 2.5 * .067 .056 .05 198993CH R3300/35 3300 35V 16 x 35 x 7.5 .215 1.94 1.55 1.6 199072CH R47/100 47 100V 10 x 12 x 5 * .15 .13 .10 198990CH R4700/16 470 16V 16 x 25 x 7.5 .79 .71 .57 .43 33033061CH R447/160S 47 160V 10 x 20 x 5.0 .34 .31 .276 .238 93851CH R4700/25 4700 25V 16 x 31 x 7.5 1.10 .94 .78 .61 330675CH R47/450 47 250V 13 x 25 x 5.0 .57 .508 .447 .388 199005CH R4700/15 4700 35V 18 x 35 x 7.5 1.35 1.25 1.15 1.05 330675CH R47/450 47 450V 18 x 30 x 7.5 1.75 1.21 .92 .70 163302CH R4700/35 4700 50V 22 x 42 x 10 2.25 1.99 1.67 1.45 207812CH R400/16 100 16V 5 x 11 x 2 * .056 .048 198934CH R6800/16 6800 16V 16 x 26 x 7.5 * .149 .132 .114 158490CH R1B100 1 1 100V 5 x 11 x 2 * .06 .05 .04 .05 .04 .05 .04 .05 .04 .056 .05 .04 .056 .05 .04 .056 .05 .04 .056 .056 .056 .056 .056 .046 .056 .05 .056 .046 .056 .056 .056 .056 .056 .056 .056 .05	135302CH	R47/10	47	10V	5 x 12 x 2		.04	.03	.025		30534CH	R2200/25	2200	25V	13 x 21 x 5	.61	.545	.444	.333
93754CH R47/25 47 25V 5 x 11 x 2 * .053 .037 .029 198897CH R3300/16 330 16V 12 x 25 x 5 .49 .39 .33 .29 198951CH R47/35 47 35V 5 x 11 x 2 * .05 .04 .03 30892CH R3300/25 3300 25V 13 x 29 x 5 .79 .72 .545 .48 31115CH R47/50 47 50V 6 x 11 x 2.5 * .067 .056 .05 198993CH R3300/35 3300 35V 16 x 35 x 7.5 .215 1.94 1.55 1.6 199072CH R47/100 47 100V 10 x 12 x 5 * .15 .13 .10 198990CH R4700/16 470 16V 16 x 25 x 7.5 .79 .71 .57 .43 33061CH R47/160S 47 160V 10 x 20 x 5.0 .34 .31 .276 .238 93851CH R4700/25 4700 25V 16 x 31 x 7.5 1.10 .94 .78 .61 330645CH R47/450 47 450V 18 x 30 x 7.5 1.75 1.21 .92 .70 163302CH R4700/50 470 50V 22 x 42 x 10 .22 5 1.99 1.67 1.45 207812CH RA100/16 100 16V 5 x 11 x 2 * .056 .048 198934CH R6800/16 800 15V 16 x 25 x 7.5 * .149 1.32 .114 158490CH R1B100 1 100 10V 5 x 11 x 2 * .066 .05 .048 198934CH R3000/36 330836CH RB10/50 1 1 160V 5 x 11 x 2.0 * .056 .046 .056 .046 .036 330895CH RB10/50 10 50V 5 x 11 x 2.0 * .056 .046 .036 33089CH RB10/50 10 50V 5 x 11 x 2.0 * .056 .046 .036 33089CH RB10/50 10 50V 5 x 11 x 2.0 * .056 .046 .036 33089CH RB10/50 10 50V 5 x 11 x 2.0 * .056 .046 .036 33089CH RB10/50 10 50V 5 x 11 x 2.0 * .056 .046 .036 33089CH RB10/50 10 50V 5 x 11 x 2.0 * .056 .046 .036 33089CH RB10/50 10 50V 5 x 11 x 2.0 * .056 .046 .036 33089CH RB10/50 10 50V 5 x 11 x 2.0 * .056 .046 .036 33089CH RB10/50 10 50V 5 x 11 x 2.0 * .056 .046 .036 33089CH RB10/50 10 50V 5 x 11 x 2.0 * .056 .046 .036 33089CH RB10/50 10 50V 6 x 11 x 2.5 * .066 .046 .036 33089CH RB10/50 10 50V 5 x 11 x 2.0 * .056 .046 .036 330891CH RB10/50 10 50V 5 x 11 x 2.0 * .056 .046 .036 330891CH RB10/50 10 50V 5 x 11 x 2.0 * .056 .046 .036 330891CH RB10/50 10 50V 6 x 11 x 2.5 * .066 .046 .036 330891CH RB10/50 10 50V 5 x 11 x 2.0 * .056 .046 .036 330891CH RB10/50 47 50V 6 x 11 x 2.5 * .066 .048 .036 330891CH RB10/50 10 50V 5 x 11 x 2.0 * .056 .046 .036 330891CH RB10/50 47 50V 6 x 11 x 2.5 * .066 .048 .036 330891CH RB10/50 10 50V 5 x 11 x 2.0 * .056 .046 .036 330891CH RB10/50 47 50V 6 x 11 x 2.5 * .066 .048 .036 330891CH RB10/50 47 50V	198862CH	R47J/16	47	16V	5 x 11 x 2	*	.04	.032	.023		198985CH	R2200J/35	1 2200	35V	16 x 25 x 7.5	1.39	1.25	.99	.74
198951CH R47//35																			
31115CH R47/50 47 50V 6 x 11 x 2.5 * .067 .056 .05						*								1					
330499CH RA47/63 47 63V 8 x 12 x 3.5																			
199072CH R47J/100 47 100V 10 x 12 x 5																			
330561CH RA47/160S 47 160V 10 x 20 x 5.0 34 31 .276 .238   93851CH R4700/25 4700 25V 16 x 31 x 7.5 1.10 .94 .78 .61 330616CH RA47/250 47 250V 13 x 25 x 5.0 .57 .508 .447 .388   199005CH R4700J/35 4700 35V 18 x 35 x 7.5 1.35 1.25 1.15 1.05 330675CH RA47/450 47 450V 18 x 30 x 7.5 1.75 1.21 .92 .70 163302CH R4700/50 4700 50V 22 x 42 x 10 2.25 1.99 1.67 1.45 207812CH R100/10 100 10V 5 x 11 x 2 * .08 .06 .05 .31511CH R6800/16 6800 16V 16 x 26 x 7.5 1.10 .87 .76 .66 330421CH R4100/16 100 16V 5 x 11 x 2.0 * .056 .055 .048 198934CH R6800J/25 6800 25V 18 x 35 x 7.5 25 55 1.59 1.43 1.14 .86																			
330616CH RA47/250 47 250V 13 x 25 x 5.0 5.57 5.08 4.47 3.88 199005CH R4700J/35 470 35V 18 x 35 x 7.5 1.35 1.25 1.15 1.05 330675CH RA47/450 47 450V 18 x 30 x 7.5 1.75 1.21 .92 .70 163302CH R4700J/50 470 50V 22 x 42 x 10 2.25 1.99 1.67 1.45 207812CH R100J/10 100 10V 5 x 11 x 2 * .08 .06 .05 .055 .048 198934CH R6800J/25 6800 25V 18 x 35 x 7.5 \$2 551.59 1.43 1.14 .86																			
330675CH RA47/450													:						
207812CH R100/10 100 10V 5 x 11 x 2 * .08 .06 .05 .055 .048 198934CH R6800/125 6800 25V 18 x 35 x 7.5 \$2 551.59 1.43 1.14 .86 .66 .330421CH RA100/16 100 16V 5 x 11 x 2.0 * .056 .055 .048 198934CH R6800/125 6800 25V 18 x 35 x 7.5 \$2 551.59 1.43 1.14 .86 .66 .66 .05 .056 .056 .056 .056 .056 .																			
330421CH RA100/16 100 16V 5 x 11 x 2.0 * .056 .055 .048 198934CH R6800J/25 6800 25V 18 x 35 x 7.5 - 25 5 1.59 1.43 1.14 .86    105 C - HT Type General Purpose    158481CH R0.47B100 0.47 100V 5 x 11 x 2																			
105°C - HT Type General Purpose   158481CH   R0.47B100   0.47   100V   5 x 11 x 2   * \$.05   \$.04   \$.03   158529CH   R10B100   10   100V   6 x 11 x 2.5   * \$.08   \$.07   \$.055   \$330771CH   RB1/50   1   50V   5 x 11 x 2   * 0.6   0.05   0.04   330843CH   RB10/160   10   160V   8 x 11 x 3.5   * 1.49   1.32   1.14   158490CH   R1B100   1   100V   5 x 11 x 2   * 0.6   0.5   0.04   330860CH   RB10/250   10   250V   10 x 17 x 5.0   22   2.07   1.81   1.62   330835CH   RB1/160   1   160V   5 x 11 x 2.0   * 0.78   0.67   0.055   207870CH   R22B/25   22   25V   5 x 11 x 2   * 0.04   0.37   0.28   330780CH   RB4.7/50   4.7   50V   5 x 11 x 2.0   * 0.56   0.04   0.36   158326CH   R22B35   22   35V   5 x 11 x 2   * 0.07   0.05   0.3   330851CH   RB4.7/250   4.7   250V   8 x 11 x 3.5   * 1.4   1.122   1.05   330801CH   RB22/50   22   50V   6 x 11 x 2.5   * 0.67   0.055   0.04   330691CH   RB10/16   10   16V   5 x 11 x 2.0   * 0.39   0.34   0.29   158246CH   R47B25   47   25V   5 x 11 x 2   * 0.06   0.048   0.36   330798CH   RB10/50   10   50V   5 x 11 x 2.0   * 0.56   0.046   0.36   330819CH   RB47/50   47   50V   6 x 11 x 2.5   * 0.06   0.048   0.36   330798CH   RB10/50   10   50V   5 x 11 x 2.0   * 0.56   0.046   0.36   330819CH   RB47/50   47   50V   6 x 11 x 2.5   * 0.102   0.08   0.057   0.055   0.044   0.056   0.046   0.036   0.046   0.036   0.046   0.036   0.046										- 1									
158481CH         R0.47B100         0.47         100V         5 x 11 x 2         *         \$.05         \$.04         \$.03           330771CH         RB1/50         1         50V         5 x 11 x 2.0         *         .056         .046         .036         .330843CH         RB10/160         10         160V         8 x 11 x 3.5         *         .149         .132         .114           158490CH         R1B100         1         100V         5 x 11 x 2         *         .06         .05         .04         330860CH         RB10/250         10         250V         10 x 17 x 5.0         .22         .207         .181         .162           330780CH         RB1/160         1         160V         5 x 11 x 2.0         *         .067         .055         207870CH         R22B/25         22         25V         5 x 11 x 2         *         .04         .036           330780CH         RB4.7/50         4.7         50V         5 x 11 x 2.0         *         .056         .046         .036         158326CH         R22B/25         22         25V         5 x 11 x 2         *         .047         .037         .028           330780CH         RB4.7/250         4.7         250V         8 x 11 x 3.5<	330421011	100/10	100	100	3 X 11 X 2.0	75							1 0000	1 230	10 λ 33 λ 7.3 Φ2	- 1.57	1.73	1.17	.00
330771CH RB1/50										e (									
158490CH       R1B100       1       100V       5 x 11 x 2       * .06       .05       .04         330835CH       RB1/160       1       160V       5 x 11 x 2.0       * .078       .067       .055         330780CH       RB4.7/50       4.7       50V       5 x 11 x 2.0       * .056       .046       .036         330851CH       RB4.7/250       4.7       250V       8 x 11 x 3.5       * .14       .122       .105         330798CH       RB10/16       10       16V       5 x 11 x 2.0       * .039       .034       .029         330798CH       RB10/50       10       50V       5 x 11 x 2.0       * .056       .046       .036         330798CH       RB10/50       10       50V       5 x 11 x 2.0       * .039       .034       .029         330798CH       RB10/50       10       50V       5 x 11 x 2.0       * .056       .046       .036									$\sim$										
330835CH RB1/160			1 1																
330780CH     RB4.7/50     4.7     50V     5 x 11 x 2.0     * .056     .046     .036       330851CH     RB4.7/250     4.7     250V     8 x 11 x 3.5     * .14     .122     .105       330691CH     RB10/16     10     16V     5 x 11 x 2.0     * .039     .034     .029       330798CH     RB10/50     10     50V     5 x 11 x 2.0     * .056     .046     .036       330798CH     RB10/50     10     50V     5 x 11 x 2.0     * .056     .046     .036																			
330851CH RB4.7/250 4.7 250V 8 x 11 x 3.5 * .14 .122 .105 330801CH RB10/16 10 16V 5 x 11 x 2.0 * .056 .044 .036 330798CH RB10/50 10 50V 5 x 11 x 2.0 * .056 .046 .036														25V		*	.047	.037	.028
330691CH RB10/16 10 16V 5 x 11 x 2.0 * .039 .034 .029 330798CH RB10/50 10 50V 5 x 11 x 2.0 * .056 .046 .036 330819CH RB47/50 47 50V 6 x 11 x 2.5 * .06 .048 .036														35V		*	.07	.05	.03
330798CH RB10/50 10 50V 5 x 11 x 2.0 * .056 .046 .036 330819CH RB47/50 47 50V 6 x 11 x 2.5 * .102 .08 .057	330851CH		4.7	250V		*	.14						22	50V		*	.067	.055	
	330691CH					*							47	25V		*	.06	.048	.036
*Capacitor dimensions and styles may vary	330798CH	1			5 x 11 x 2.0	*	.056	.046	.036		330819CH	RB47/50	47	50V	6 x 11 x 2.5	*	.102	.08	.057
	*Capacitor of	limensions and s	styles ma	ay vary															





330755CH

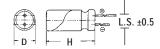
RB220/35S

220

35V

### Aluminum Radial-Lead Electrolytic Capacitors (±20%)





T CROSS REFERENCES: Elna: RC2/RE2; IC: RAR/RSS; Marcon: SEM/SSM; Nichicon: LB/VX/USA/SR/SA; Rubycon: MS7/TWSS; Sprague: 501D/513D; UCC: SME/SRE/SRA/SRG; Panasonic: KA/KS/SU 105°C - HT Type General Purpose (Continued)

NIEV.	/ Quanti	tv SAV	4)		•••		. , , , ,	00
DULSUL		,		* Prepackaged: ord	ler in inc	rements (	of 10, 10	0 or 500
	Mfr. Cross	Value	!	Size (mm)		Pric	ing	
Part No.	Ref, No.†	(μF)	Voltage	DxHxL.S.	1	10	100	500
330704CH	RB100/16	100	16V	6 x 11 x 2.5	*	\$.067	\$.055	\$.044
330739CH	RB100/25	100	25V	6 x 11 x 2.5	*	.067	.057	.048
330747CH	RB100/35	100	35V	8 x 11 x 3.5	*	.084	.08	.074
158393CH	R100B50	100	50V	8 x 11 x 3.5	*	.09	.07	.055
330827CH	RB100/63	100	63V	10 x 13 x 5.0	*	.149	.132	.114
207845CH	R180/16	180	16V	6 x 15 x 2.5	*	.034	.031	.028
311757CH	R220B10	220	10V	6 x 11 x 2.5	.25	.191	.143	.102
158262CH	R220B25	220	25V	8 x 11 x 3.5	*	.12	.09	.07

8 x 16 x 3.5

.149

.132 .114

				* Prepackaged: ord	ler in inci	rements	of 10, 10	0 or 500
	Mfr. Cross	Value		Size (mm)		Pric	ing	
Part No.	Ref. No.†	<b>μ</b> F)	Voltage	D x H x L.S.	1	10	100	500
158406CH	R220B50	220	50V	10 x 12 x 5	\$.34	\$.306	\$.277	\$.264
330712CH	RB330/16	330	16V	8 x 11 x 3.5	*	.102	.08	.057
158203CH	R470B16	470	16V	8 x 11 x 3.5	*	.12	.10	.09
158289CH	R470B25	470	25V	10 x 12 x 5	*	.15	.12	.10
330763CH	RB470/35	470	35V	10 x 15 x 5.0	.28	.244	.219	.152
158465CH	R470B63	470	63V	12 x 20 x 5	.30	.27	.24	.21
158297CH	R1000B25	1000	25V	10 x 20 x 5	.35	.29	.25	.19
330721CH	RB1000/16	1000	25V	10 x 20 x 5.0	.23	.216	.19	.171
158377CH	R1000B35	1000	35V	10 x 20 x 5	.49	.45	.40	.35
158431CH	R2200B50	2200	50V	16 x 35 x 7.5	.99	.89	.71	.53

				(	Other I	Manu	ıfactı	ırers –	– Limited	Great Dea	ıls*						
						1	85°C	– Gene	ral Purpo	se							
29831CH	R1/50	1	50V	5 x 11 x 2	*	\$.057	\$.048	\$.038	93778CH	R220/50	220	50V	10 x 12 x 5	*	\$.15	\$.12	\$.09
93729CH	R2.2/50	2.2	50V	5 x 11 x 2	*	.034	.03	.023	198889CH	R330J/16	330	16V	8 x 11 x 3.5	*	.126	.076	.057
135183CH	R3.3/50	3.3	50V	5 x 11 x 2	*	.045	.038	.029	93796CH	R330/25	330	25V	10 x 12 x 5	*	.126	.107	.08
31000CH	R4.7/50	4.7	50V	5 x 11 x 2	*	.038	.033	.026	93809CH	R470/16	470	16V	8 x 11 x 3.5	*	.099	.095	.089
29891CH	R10/50	10	50V	5 x 11 x 2	*	.06	.05	.04	31181CH	R470/25	470	25V	10 x 12 x 5	*	.12	.10	.09
93737CH	R22/50	22	50V	5 x 11 x 2	*	.06	.05	.035	93817CH	R470/35	470	35V	10 x 16 x 5	*	.153	.135	.117
93745CH	R33/50	33	50V	5 x 11 x 2	*	.05	.045	.04	93825CH	R470/50	470	50V	12 x 20 x 5	.29	.27	.19	.13
135301CH	R47/10	47	10V	5 x 12 x 2	*	.036	.031	(.023)	30015CH	R1000/16	1000	16V	10 x 16 x 5	*	.178	.156	.133
93753CH	R47/25	47	25V	5 x 11 x 2	*	.048	.033	.026	93833CH	R1000/25	1000	25V	10 x 20 x 5	*	.278	.256	.20
31114CH	R47/50	47	50V	6 x 11 x 2.5	*	.06	.05	.045	93841CH	R1000/50	1000		12 x 25 x 5	.52 .32	.46	.41	.34
207811CH	R100/10	100	10V	5 x 11 x 2	*	.072	.054	.045	133145CH 30533CH	R2200/16 R2200/25	2200 2200	16V 25V	12 x 20 x 5 12 x 25 x 5	.55	.28	.24	.22
93761CH	R100/25	100	25V	6 x 11 x 2.5	*	.07	.05	.035	30891CH	R3300/25	3300	25V	16 x 25 x 7.5	.71	.65	.40	.43
29962CH	R100/50	100	50V	8 x 11 x 3.5	*	.07	.06	.05	93850CH	R4700/25	4700		16 x 25 x 7.5	.99	.85	.70	.53
30496CH	R220/25	220	25V	8 x 11 x 3.5	*	.08	.06	.05	163301CH	R4700/50	4700	50V	22 x 42 x 10	1.99	1.79	1.50	1.31
93770CH	R220/35	220	35V	10 x 12 x 5	*	.09	.08	.07	31510CH	R6800/16	6800	16V	16 x 35 x 7.5	1.09	.98	.78	.59
	11220/55			10 % 12 % 3	71	.07	.00	.07	0.010011	1.0000710	1 0000	.51	10 % 00 K 7.0		.70	.70	,

Capacitor dimensions and styles may vary.

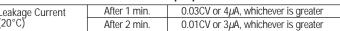
JAMECO Value Pro

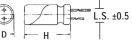
## Aluminum Radial-Lead Non-Polarized Electrolytic Capacitors (±20%)

85°C - General purpose



	oo o concra	i pui posc	
Leakage Current	After 1 min.	0.03CV or 4µA, whichever is greater	
(20°C)	After 2 min	0.01CV or 3./A whichever is greater	





† CROSS REFERENCES: Elna: RC2/RE2; IC: RAR/RSS; Marcon: SEM/SSM; Nichicon: LB/VX/USA/SR/SA; Rubycon: MS7/TWSS; Sprague: 501D/513D; UCC: SME/SRE/SRA/SRG; Panasonic: KA/KS/SU \* Prepackaged: order in increments of 10, 100 or 500

	Mfr. Cross	Value		Size (mm)		Pric	ing			Mfr. Cross	Value		Size (mm)		Prici	ng	
Part No.	Ref. No.†	i (μF)	Voltage	DxHxL.S.	1	10	100	500	Part No.	Ref. No.†	(μF)	Voltage	DxH	1	10	100	500
330931CH	RN0.47/50	0.47	50V	5 x 11 x 2	\$.28	\$.252	\$.19	\$.152	330982CH	RN10/50	10	50V	8 x 11 x 3.5	\$.22	\$.198	\$.114	\$.105
330940CH	RN1/50	1	50V	5 x 11 x 2	*	.159	.085	.076	331096CH	RN10/100	10	100V	8 x 11 x 3.5	.22	.198	.114	.105
331053CH	RN1/100	1	100V	5 x 11 x 2	*	.169	.086	.076	330878CH	RN22/16	22	16V	5 x 11 x 2	.31	.279	.219	.181
330958CH	RN2.2/50	2.2	50V	5 x 11 x 2	*	.159	.085	.076	330923CH	RN22/25	22	25V	5 x 11 x 2	.32	.288	.259	.233
331029CH	RN2.2/63	2.2	63V	5 x 11 x 2	.28	.243	.219	.197	330991CH	RN22/50	22	50V	6 x 11 x 2.5	.33	.31	.171	.162
331061CH	RN2.2/100	2.2	100V	5 x 11 x 2	*	.169	.086	.076	331037CH	RN22/63	22	63V	8 x 11 x 3.5	.45	.409	.368	.331
330966CH	RN3.3/50	3.3	50V	5 x 11 x 2	*	.171	.094	.086	331109CH	RN22/100	22	100V	10 x 15 x 5.0	.33	.297	.171	.162
331070CH	RN3.3/100	3.3	100V	5 x 11 x 2	*	.189	.095	.086	330886CH	RN47/16	47	16V	6 x 11 x 2.5	.33	.297	.267	.241
330907CH	RN4.7/25	4.7	25V	5 x 11 x 2	.28	.243	.219	.197	331002CH	RN47/50	47	50V	8 x 11 x 3.5	.46	.414	.314	.285
330974CH	RN4.7/50	4.7	50V	5 x 11 x 2	*	.171	.094	.086	331117CH 330894CH	RN47/100 RN100/16	47	100V 16V	10 x 20 x 5.0	.46 .45	.414	.314	.285
331088CH	RN4.7/100	4.7	100V	6 x 11 x 2.5	*	.188	.095	.086	331011CH	RN100/16	100 100	50V	8 x 11 x 3.5 10 x 17 x 5.0	.69	.405 .621	.467	.328
330915CH	RN10/25	1 10	25V	5 x 11 x 2.5	.28	.243	.219	.197	331011CH	RN220/63	220	63V	5 x 11 x 2	.69	.62	.467	.428
33071361	KIV10/25	<b>i</b> 10	237	3 X 11 X Z	.20	.243	.219	.197	33 IU43CH	KIN220/03	220	037	SXIIXZ	.09	.02	.400	.420
							QE°C	Hio	h Eroguor	CV						DD	(ZD/1/7

							80 C	– miő	jn-	Frequen	icy							<i>5W/</i>
	Mfr. Cross	Value		Size (mm)		Pric	ing				Mfr. Cross	Value		Size (mm)		Prici	ng	
Part No.	Ref. No.	i (μF)	Voltage	DxHxL.S.	1	10	100	500		Part No.	Ref. No.	(μF)	Voltage	DxH	1	10	100	500
331125CH	RN1/25S	1	25V	8 x 11 x 3.5	\$.37	\$.348	\$.186	\$.166		331168CH	RN5.6/25S	5.6	25V	8 x 11 x 3.5	\$.37	\$.348	\$.186	\$.166
331205CH	RN1/50S	1	50V	8 x 11 x 3.5	.37	.348	.186	.166		331248CH	RN5.6/50S	5.6	50V	8 x 14 x 3.5	.45	.423	.226	.202
331133CH	RN2.2/25S	2.2	25V	8 x 11 x 3.5	.37	.348	.186	.166		331176CH	RN6.8/25S	6.8	25V	8 x 11 x 3.5	.37	.348	.186	.166
331213CH	RN2.2/50S	2.2	50V	8 x 11 x 3.5	.37	.348	.186	.166		331256CH	RN6.8/50S	6.8	50V	8 x 14 x 3.5	.45	.423	.226	.202
331141CH	RN3.3/25S	3.3	25V	8 x 11 x 3.5	.37	.348	.186	.166		331184CH	RN8.2/25S	8.2	25V	8 x 14 x 3.5	.45	.423	.226	.202
331221CH	RN3.3/50S	3.3	50V	8 x 11 x 3.5	.37	.348	.186	.166		331264CH	RN8.2/50S	8.2	50V	10 x 15 x 5.0	.58	.548	.293	.262
331150CH	RN4.7/25S	4.7	25V	8 x 11 x 3.5	.37	.348	.186	.166		331192CH	RN10/25S	10	25V	8 x 14 x 3.5	.45	.423	.226	.202
331230CH	RN4.7/50S	4.7	50V	8 x 11 x 3.5	.37	.348	.186	.166		331272CH	RN10/50S	10	50V	10 x 15 x 5.0	.58	.548	.293	.262

✓ Awesome Prices
✓ Consistent Quality
✓ Professional Grade
✓ Backed by Jameco

Color Code Legend New Sale Lower\$ QtySave

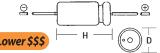
JAMECO ValuePro



### **Aluminum Axial-Lead Electrolytic Capacitors**

General purpose 85°C maximum





 $\ensuremath{\ast}$  Prepackaged: order in increments of 10, 100 or 500

NEW

-40°C to +85°C Operating temperature range Leakage Current (After 2 minutes 20°C) 0.02CV or 2µA, whichever is greater

†CROSS REFERENCES: Elna: RE2; IC: RAR; Marcon: SEM; Nichicon: LB/VX; Rubycon: TWSS; Spraque: 501D/513D; UCC: SME; Panasonic: SU \* Prepackaged: order in increments of 10, 100 or 500

	Mfr. Cross	Value		Size (mm)		Pric	ing				Mfr. Cross	Value		Size (mm)		Pric	ing	
Part No.	Ref. No.†	(μF)	Voltage	DxH	1	10	100	500	Part	rt No.	Ref. No.†	. (μF)	Voltage	DxH	1	10	100	500
10867CH	A1/50	1	50V	5 x 13	*	\$.15	\$.115	\$.09	331	1408CH	AB100/160	<b>!</b> 100	160V	16 x 26	\$1.79	\$1.53	\$1.39	\$1.26
93570CH	A2.2/50	2.2	50V	6 x 13	*	.11	.10	.09	331	1416CH	AB100/250	100	250V	16 x 30	2.45	2.09	1.93	1.80
199419CH	A3.3J/50	3.3	50V	6 x 12	*	.197	.143	.105	331	1299CH	AB150/50	150	50V	10 x 17	.96	.86	.69	.65
11077CH	A4.7/50	4.7	50V	6 x 13	*	.18	.13	.11	199	9195CH	A220J16	220	16V	8 x 16	*	.235	.20	.15
331301CH	AB4.7/63	4.7	63V	6 x 12	.23	.197	.143	.105	199	9291CH	A220J/25	220	25V	8 x 16	.25	.21	.18	.12
199427CH	A6.8J/50	6.8	50V	6 x 12	*	.197	.143	.105	199	9363CH	A220J/35	220	35V	10 x 17	.34	.273	.247	.185
199144CH	A10J/16	10	16V	6 x 12	*	.20	.14	.10	110	018CH	A220/50	220	50V	10 x 17	.35	.29	.25	.192
199259CH	A10J/25	10	25V	5 x 12	*	.174	.15	.139	331	1352CH	AB220/63	220	63V	10 x 20	.55	.461	.409	.342
93578CH	A10/35	10	35V	6 x 13	*	.133	.107	.08		9208CH	A330J/16	330	16V	8 x 16	*	.235	.20	.15
10883CH	A10/50	10	50V	6 x 12	*	.167	.133	.089	199	9371CH	A330J/35	330	35V	10 x 17	.44	.367	.333	.25
331310CH	AB10/63	10	63V	6 x 12	*	.15	.128	.105		9451CH	A330J/50	330	50V	13 x 22	.50	.432	.399	.299
331424CH	AB10/450	10	450V	13 x 25	1.25	1.04	.94	.86	199	9216CH	A470J/16	470	16V	8 x 16	.34	.273	.245	.184
199152CH	A22J/16	22	16V	6 x 12	*	.197	.143	.105	199	9312CH	A470J/25	470	25V	10 x 17	.44	.367	.333	.235
199267CH	A22J/25	22	25V	6 x 12	*	.197	.141	.105		9380CH	A470J/35	470	35V	10 x 21	.50	.404	.371	.278
10998CH	A22/50	22	50V	6 x 12	*	.19	.14	.10		122CH	A470/50	i 470	50V	13 x 21	.59	.49	.42	.34
331328CH	AB22/63	22	63V	8 x 12	.22	.218	.173	.154		9460CH	A680J/50	680	50V	16 x 25	.85	.73	.57	.428
331387CH	AB22/160	22	160V	10 x 17	.80	.68	.62	.56		1281CH	AB1000/10	1000	10V	10 x 17	.51	.414	.38	.304
331432CH	AB22/450	22	450V	16 x 26	1.99	1.66	1.51	1.37		632CH	A1000/16	1000	16V	10 x 20	.51	.46	.42	.40
199161CH	A33J/16	33	16V	6 x 13	*	.197	.143	.105		955CH	A1000/25	1000	25V	10 x 20	.66	.54	.49	.38
199347CH	A33J/35	33	35V	6.3 x 16	*	.197	.143	.105		650CH	A1000/35	1000	35V	13 x 25	.94	.83	.655	.545
199435CH	A33J/50	33	50V	6.3 x 16	*	.197	.143	.105		7257CH	A1000/50	1000	50V	16 x 25	.88	.77	.66	.545
199179CH	A47J/16	47	16V	6.3 x 12	*	.134	.114	.085		3356CH	A1000/50-1	1000	50V	22 x 41	.69	.59	.55	.49
135320CH	A47/25	47	25V	8 x 16	*	.15	.14	.09		034CH	A2200/16	2200	16V	13 x 21	.88	.79	.72	.655
199355CH	A47J/35	47	35V	6.3 x 16	*	.197	.143	.105		9321CH	A2200J/25	2200	25V	16 x 28	1.09	.90	.78	.59
11106CH	A47/50	47	50V	8 x 16	*	.19	.14	.10		657CH	A2200/35	2200	35V	16 x 30	1.25	1.10	.99	.85
331336CH	AB47/63	47	63V	8 x 16	*	.171	.16	.13		9478CH	A2200J/50	2200	50V	18 x 42	2.29	1.93	1.79	1.65
331361CH	AB47/100	47	100V	10 x 17	.34	.273	.247	.19		666CH	A3300/25	3300	25V	16 x 32	1.10	.99	.88	.77
331395CH	AB47/160	47	160V	13 x 21	.75	.57	.368	.331		9398CH	A3300J/35	i 3300	35V	18 x 37	3.39	2.93	2.29	1.72
331441CH	AB47/450	47	450V	16 x 30	3.25	2.74	2.49	2.26		9486CH	A3300J/50	3300	50V	22 x 43	4.25	3.56	2.94	2.21
199443CH	A68J/50	68	50V	8 x 15	.25	.225	.18	.135		9232CH	A4700J/16	4700	16V	16 x 30	1.45	1.30	1.17	1.06
199187CH	A100J/16	100	16V	6.3 x 16	.27	.22	.18	(14)		674CH	A4700/25	4700	25V	16 x 30	1.69	1.49	1.29	.99
199283CH	A100J/25	100	25V	8 x 16	.25	.20	.18	.15		9401CH	A4700J/35	4700	35V	18 x 40	2.79	2.51	2.01	1.51
93552CH	A100/35	100	35V	8 x 16	*	.23	.19	.145		8810CH	A4700A50	4700	50V	25 x 43	2.79	2.29	2.09	1.79
10912CH	A100/50	100	50V	8 x 20	*	.245	.20	.155		9241CH	A6800J/16	6800	16V	16 x 33	2.59	2.23	1.75	1.40
331344CH	AB100/63	100	63V	10 x 17	.37	.291	.257	.219		9339CH	A6800J/25	6800	25V	18 x 40	2.35	1.81	1.59	1.27
331379CH	AB100/100	100	100V	10 x 20	.85	.73	.57	.47	936	682CH	A10000/16	10000	16V	16 x 33	2.49	2.28	1.83	1.32

					Other	Manu	ıtactı	ırers –	– Limited	Great Dea	ils*						
10866CH	A1/50	1	50V	5 x 13	*	\$.135	\$.104	\$.078	11017CH	A220/50	220	50V	10 x 20	\$.39	\$.32	\$.256	\$.192
93569CH	A2.2/50	2.2	50V	6 x 13	*	.125	.106	.08	11121CH	A470/50	470	50V	13 x 31	.53	.44	.38	.31
11076CH	A4.7/50	4.7	50V	6 x 13	*	.162	.117	.099	93631CH	A1000/16	1000	16V	13 x 27	.46	.41	.38	.36
93577CH	A10/35	10	35V	6 x 13	*	.155	.134	.119	10954CH	A1000/25	1000	25V	13 x 31	.59	.49	.44	.34
10882CH	A10/50	10	50V	6 x 12	*	.15	.12	.08	93649CH	A1000/35	1000	35V	13 x 26	.85	.75	.59	.49
10997CH	A22/50	22	50V	6 x 12	*	.17	.126	.09	147256CH	A1000/50	1000	50V	16 x 31	.79	.71	.57	.43
135319CH	A47/25	47	25V	8 x 16	*	.135	.115	.086	11033CH	A2200/16	2200	16V	16 x 40	.79	.71	.65	.59
11105CH	A47/50	47	50V	8 x 16	*	.17	.136	.102	93665CH	A3300/25	3300	25V	16 x 32	.99	.89	.79	.69
93551CH	A100/35	100	35V	8 x 16	*	.21	.17	.13	93673CH	A4700/25	4700	25V	22 x 39	1.55	1.34	1.16	.89
10911CH	A100/50	100	50V	8 x 20	*	.22	.176	.132	93681CH	A10000/16	10000	16V	22 x 51	2.25	2.05	1.85	1.49

<sup>\*</sup>Capacitor dimensions and styles may vary



## **Aluminum Axial-Lead Non-Polarized Electrolytic Capacitors**

85°C — General purpose



	Mfr. Cross	Value		Size (mm)		Pric	ing			Mfr. Cross	Value	¦	Size (mm)		Prici	ng	
Part No.	Ref. No.†	(μF)	Voltage	DxH	1	10	100	500	Part No.	Ref. No.†	(μF)	Voltage	DxH	1	10	100	500
331521CH	AN1/50	1	50V	6 x 16	\$.35	\$.342	\$.266	\$.209	331660CH	AN22/100	22	100V	10 x 18	\$.86	\$.77	\$.69	\$.62
331635CH	AN1/100	1	100V	6 x 16	.44	.428	.314	.247	331580CH	AN33/50	33	50V	8 x 16	.69	.68	.67	.51
331539CH	AN2.2/50	2.2	50V	6 x 16	.40	.38	.295	.228	331678CH	AN33/100	33	100V	10 x 20	.87	.83	.67	.51
331547CH	AN3.3/50	3.3	50V	6 x 16	.42	.399	.314	.238	331504CH	AN47/25	47	25V	6 x 16	.51	.459	.413	.372
331555CH	AN4.7/50	4.7	50V	6 x 16	.45	.428	.333	.266	331598CH	AN47/50	47	50V	8 x 16	.85	.80	.74	.59
331643CH	AN4.7/100	4.7	100V	6 x 16	.69	.66	.504	.38	331686CH	AN47/100	47	100V	10 x 21	1.39	1.25	1.13	1.01
331483CH	AN10/25	10	25V	6 x 16	.39	.37	.356	.284	331467CH	AN100/16	100	16V	8 x 16	.53	.477	.429	.386
331563CH	AN10/50	10	50V	6 x 16	.57	.542	.418	.333	331512CH	AN100/15	100	25V	8 x 20	.57	.513	.462	.416
331651CH	AN10/100	10	100V	8 x 16	.73	.69	.532	.504									
331459CH	AN22/16	22	16V	6 x 16	.39	.351	.316	.284	331601CH	AN100/50	100	50V	10 x 18	.91	.87	.83	.79
331491CH	AN22/25	22	25V	6 x 16	.43	.387	.348	.313	331694CH	AN100/100	100	100V	13 x 25	2.35	2.12	1.91	1.72
331571CH	AN22/50	22	50V	6 x 16	.75	.71	.545	.437	331475CH	AN220/16	220	16V	8 x 20	.75	.68	.61	.55
331627CH	AN22/63	22	63V	8 x 16	.75	.71	.55	.437	331619CH	AN220/50	220	50V	13 x 25	1.39	1.32	.99	.79







EXCLUSIVE

### Snap-Mount Large-Can Aluminum Electrolytic Capacitors (±20%)

· Designed as an input filter for switched mode power supply; standard 10mm (0.40") snap-in spacing Operating temperature range: (SNA) -40°C to +85°C; (SNB) -40°C to +105°C

Nichicon: LLK/LLQ; Panasonic: TS-UP/TS-U; Phillips (MEPCO): 3487/3489; Rubycon: RSP; Sprague: 80D/82D; United Chemicon: SMG(VN)/SMH(VN)

· Can-Top safety vent

**Quantity SAVE** † CROSS REFERENCES: Aero M: LP/LPR; Elna: LP3/LP4; Illinois Capacitor: LBA/LPR; Mallory: LPX; Marcon: CEAWF;



115422CH

Snap-Ins

	Mfr. Cross	Value		Size (mm)		Pricing			Mfr. Cross	Value	i i	Size (mm)		Pricing	
Part No.	Ref. No.†	(μF)	Voltage	DxHxL.S.	1	10	100	Part No.	Ref. No.†	(μF)	Voltage	DxHxL.S.	1	10	100
331838CH	SNA68/450	68	450V	22 x 30	\$2.55	\$2.19	\$1.26	331969CH	SNB560/200	560	200V	25 x 36	\$3.35	\$2.39	\$1.36
331926CH	SNB100/200	100	200V	30 x 40	1.95	1.50	.81	332048CH	SNB560/250	560	250V	30 x 40	2.95	2.80	1.81
331846CH	SNA120/450	120	450V	22 x 40	3.09	2.33	1.45	203271CH	SN680/200/2	680	200V	35 x 25	2.59	2.33	1.98
331766CH	SNA220/200	220	200V	22 x 27	1.89	1.42	.89	331977CH	SNB680/200	680	200V	25 x 40	3.05	2.69	1.55
331934CH	SNB220/200	220	200V	22 x 27	2.19	1.81	1.25	331820CH	SNA680/250	680	250V	25 x 48	3.79	2.86	1.77
331791CH	SNA220/250	220	250V	22 x 36	2.19	1.65	1.02	332056CH	SNB680/250	680	250V	25 x 48	3.89	3.53	2.03
332013CH	SNB220/250	220	250V	22 x 36	1.85	1.75	1.15	331985CH	SNB820/200	820	200V	25 x 48	3.15	2.78	1.73
203212CH	SN220/400/2	220	400V	22 x 51	4.95	4.17	2.94	332064CH	SNB820/250	820	250V	30 x 48	4.35	4.03	2.50
331854CH	SNA220/450	220	450V	25 x 48	4.39	3.31	2.06	331993CH	SNB1000/200		200V	30 x 40	4.29	3.23	2.00
203238CH	SN270/350	270	350V	25 x 40	4.15	3.53	2.65	332072CH	SNB1000/250	1,000	250V	35 x 50	4.39	4.37	2.71
331774CH	SNA330/200	330	200V	25 x 35	2.55	1.49	1.29	332005CH	SNB1500/200		200V	35 x 48	5.45	4.24	2.76
331942CH	SNB330/200	330	200V	25 x 30	1.75	1.66	1.39	331871CH	SNB2200/50	2,200	50V	22 x 26	3.19	2.26	1.30
331803CH	SNA330/250	330	250V	22 x 36	1.99	1.83	1.21	331889CH 331740CH	SNB3300/50	3,300	50V	25 x 23 22 x 48	2.45	2.01	1.17 1.44
332021CH	SNB330/250	330	250V	22 x 36	2.19	2.10	1.35	331740CH 331897CH	SNA3300/80 SNB4700/50	3,300 4,700	80V 50V		2.35 2.19	1.99	1.44
203246CH	SN330/400	330	400V	30 x 46 -\$	4.99 4.69	4.21	2.92	115422CH	SN4700/50	4,700	50V	25 x 30 30 x 41	3.19	2.55	1.79
331862CH	SNA330/450	330	450V	35 x 48	5.99	4.52	2.80	331723CH	SNA4700/63	4,700	63V	25 x 33	3.19	3.06	2.54
331951CH	SNB470/200	470	200V	22 x 41	2.39	2.19	1.26	331723CH	SNB6800/50	6,800	50V	25 x 40	2.69	2.40	1.68
115378CH	SN470/200	470	200V	30 x 41	2.49	2.25	1.99	115432CH	SN6800/50	6,800	50V	30 x 51	3.15	2.68	2.01
331811CH	SNA470/250	470	250V	25 x 40	3.05	2.30	1.43	331758CH	SNA8200/80	8,200	80V	35 x 53	6.35	4.76	2.95
332030CH	SNB470/250	470	250V	25 x 40	2.35	2.15	1.61	331707CH	SNA10000/16	10,000	16V	22 x 30	3.29	1.90	1.34
203255CH	SN470/400/4	470	400V	35 x 41	7.75	6.32	4.94	331918CH	SNB10000/50	10,000	50V	25 x 41	4.65	3.51	2.18
203263CH	SN470/400/5	470	450V	35 x 51	8.25	7.60	5.69	157737CH	SN10000/50	10,000	50V	35 x 40	4.95	4.10	3.99
155890CH	SN560/200	560	200V	23 x 41	3.19	2.69	1.90	331731CH	SNA10000/63	10,000	63V	35 x 40	5.49	4.45	3.94
331782CH	SNA560/200	560	200V	25 x 36	2.99	2.12	1.22	331715CH	SNA15000/25	15,000	25V	25 x 40	2.65	2.35	1.78
				C	Other M	lanufac	turers -	– Limited	l Great Dea	ls*					
203211CH	SN220/400/2	220	400V	22 x 51 <del>\$</del>	<sup>1.45</sup> \$4.15	\$3.53	\$2.65	203262CH	SN470/400/5	470	450V	35 x 51	\$7.69	\$6.92	\$6.23
115377CH	SN470/200	470	200V	30 x 41	2.25	2.03	1.79	155889CH	SN560/200	560	200V	23 x 41	2.89	2.46	1.84
203254CH	SN470/400/4	470	400V	35 x 41 <del>\$</del>	6.35 6.35	5.40	4.05	115431CH	SN6800/50	6,800	50V	30 x 51	2.85	2.41	1.81

\*Capacitor dimensions and styles may vary



### Memory Back-Up Capacitors

**Applications:** • Memory back-up of remote controllers • Back-up on CMOS microcomputers, static RAM,

DTSs (digital tuning systems)

**Quantity SAVE** 

142922CH

227811CH

Features: Small size vs. capacitance
 Voltage: 5.5VDC

· Excellent voltage holding characteristics for low back-up currents

Part No.	Mfr. Cross Ref. No.	Value (Farad)	1	10	100
142922CH	MBC.047/5.5	.047	\$1.49	\$1.34	\$.99
142949CH	MBC.22/5.5	.22	2.09	1.79	1.41
143010CH	MBC.47/5.5	.47	3.49	3.15	2.59

	Other Manufac	turers — Limited	Great De	eals*	
142957CH	MBC1.0/5.5	1.0	\$4.29	\$3.85	\$3.49
227811CH	S5R5V105	1.0	4.49	3.82	2.86

16002CH

16088CH

16109CH

**16011CH** DM102

#### Dipped Silver Mica Capacitors (±5%) Metalized Polyester Film Capacitors

• Case type: DM15 • Lead Space: 0.23" • Tolerance: ±5%

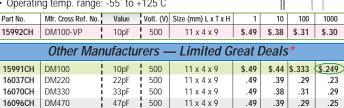
100pF

330pF

470pF

7q000pF

Operating temp. range: -55° to +125°C



11 x 4 x 9

.49

.89

1.05

1.19

.39 .31

.73 .55

.95 .79

99

89

500

500

500

Capacitor dimensions and styles may vary

#### Mylar Capacitors (±10%) **SALE** Metallized Polyester Film Capacitors

· High performance at low cost · Non-inductive construction

 Operating temp. ramge: -40°C to +85°C **Quantity SAVE** 

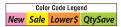
 Dissipation factor: ≤.01 (at 1kHz) Dielectric strength: 150% of rated voltage for 5sec.

†Cross References: Panasonic: ECQ-E Series; Sprague: DF/450P/451P/453P; Westlake: 160/168/ 185/167/184/186; Rubycon: MC/MN; Mepco: 713A1/719A1/ C280; TRW: X601PE/ X601CPE; Packtron: MF/RB; Secor: MMKS/MMKR/MMDR; RIFA: PHE353/ PHE354; Roederstein: MKT 1818/MKT 1822; WIMA: MKS; CSF Thompson: MD/ MC; Siemens: B325X-XX; NIC: NEM/NRM; Prepackaged: order in

Nichicon: DDXM; Phillips: 712 A1 series increments of 10, 100 or 1000

	Mfr. Cross	Value	Volt.	Size (mm)*		Pric	ing	
Part No.	Ref. No.†	μF	(V)	LxTxH	1	10	100	1000
26833CH	MY.001	.001	100	7.0 x 3.0 x 7.0	*	\$.10	\$.07	\$.05
207802CH	MY.0015/1000	.0015	1000	23.5 x 5.1 x 10.7	*	.034	.031	.028
26868CH	MY.0022	.0022	100	6.0 x 3.0 x 10.0	*	.09	.056	.043
26876CH	MY.0047	.0047	100	6.0 x 3.0 x 9.0	*	.14	.119	.089
207829CH	MY.0068/220	.0068	220	18.0 x 5.5 x 10.0	*	.12	.07	.05
26884CH	MY.01	.01	100	6.0 x 3.0 x 7.0	*	.10	.06	.04
207837CH	MY.018/50	.018	50	6.1 x 2.6 x 11.3	*	.068	.062	.057
26905CH	MY.022	.022	100	6.0 x 3.0 x 10.0	*	.15	.10	.06
26921CH	MY.033	.033	100	8.0 x 4.0 x 11.0	*	.15	.10	.06
207861CH	MY.033/400	.033	400	11.0 x 4.0 x 8.0	.28	.224	.198	.164
26930CH	MY.047	.047	100	8.0 x 4.0 x 12.0	*	.15	.10	.06
135562CH	MY.1/50	.1 ††	50	14.0 x 6.0 x 12.0	*	.11	.062	.056
26956CH	MY.1	.1	100	12.5 x 5.0 x 9.5	*	.17	.12	.07
93921CH	MY.1/250	.1	250	12.5 x 5.5 x 10	*	.19	.16	.13
26972CH	MY.22	.22	100	12.5 x 5.5 x 10	*	.19	.12	.085
93964CH	MY.33/250	.33	250	18.0 x 7.0 x 12.5	0.3227	.221	.177	.133
26999CH	MY.47	.47	100	18.0 x 6.0 x 11.5	.39	.29	.20	.17
27001CH	MY1	1	100	18.0 x 7.5 x 14.0	.49	.39	.33	.29
93981CH	MY1/250	1	250	26.0 x 9.0 x 16.0	.50	.45	.40	.34
93999CH	MY2.2/250	2.2	250	26.0 x 9.0 x 16.0	.89	.69	.59	.45

†† ±20% tolerance \*Capacitor dimensions and styles may vary



DM101

DM331

DM471

.27

.45

.65

Awesome Prices Consistent Quality Professional Grade [AMECO

Color Code Legend New Sale Lower\$ QtySave

\* Prepackaged: order in increments of 10, 100 or 1000

Dia.





### Ceramic Disc Capacitors (±20%)

25, 50 and 1000 Volt, Z5U Temperature Coefficient

.,	
Operating temperature range	+10°C to +85°C
Cap. change over temp. range	+22% to -56%
Dielectric withstanding voltage	2.5 times rated volt. for not < 1 sec.



#### **Quantity SAVE**

	Cap. change over temp. range	+22% to -56%											
	Dielectric withstanding voltage	2.5 times rated volt. for not < 1 sec.											
* Prepack	Prepackaged: order in increments of 10, 100 or 1000												

	Mfr. Cross			Size (mm)			Pricing				Mfr. Cross			Size (mm)			Pricina		
Part No.	Ref No.	Value	Volt.	Dia. x L.S.	1	10	100	1000	5000	Part No.	Ref No.	Value	Volt.	Dia. x L.S.	1	10	100	1000	5000
332179CH	CD1/50	1pF	50V	5 x 2.54	*	\$.014	\$.009	\$.008	\$.007	332401CH	CD470/1000	470pF	1000V	5 x 2.54	\$.42	\$.235	\$.17	\$.096	\$.09
135142CH	DC2.2	2.2pF	50V	5 x 2.54	*	.05	.035	.019	.015	332419CH	CD560/1000	560pF	1000V	6 x 2.54	*	.043	.042	.041	.039
332291CH	CD3.3/1000	3.3pF	1000V	5 x 2.54	*	.176	.103	.098	.097	332241CH	CD680/50	680pF	50V	5 x 2.54	*	.056	.03	.027	.021
332187CH	CD5/50	5pF	50V	5 x 2.54	*	.056	.028	.027	.026	332427CH	CD680/1000	680pF	1000V	6 x 2.54	*	.149	.084	.071	.067
332304CH	CD5/1000	5pF	1000V	5 x 2.54	*	.143	.108	.097	.092	207853CH	DC820/1000	820pF		14 x 2.54	*	.07	.059	.048	(.036)
15334CH	DC10	10pF	50V	5 x 2.54	*	.07	.05	.02	.015	332435CH		1000pF		5 x 2.54	.38	.235	.17	.096	.09
332312CH	CD10/1000	10pF	1000V	6 x 2.54	.44	.35	.20	.18	.17	332259CH		1200pF		5 x 2.54	*	.056	.03	.027	.021
332195CH	CD12/50	12pF	50V	5 x 2.54	*	.014	.009	.008	.007	332267CH		1500pF i		5 x 2.54	*	.056	.03	.027	.021
332208CH	CD15/50	15pF	50V	5 x 2.54	*	.03	.018	.016	.015	332275CH		2200pF		5 x 2.54	*	.074	.037	.033	.027
332321CH	CD20/1000	20pF	1000V	5 x 2.54	.44	.35	.20	.18	.17	332443CH		2200pF		6 x 2.54	.42	.293	.235	.12	.112
15406CH	DC22	22pF	50V	6 x 2.54	*	.078	.055	.028	.022	332283CH 332451CH		3300pF	i l	5 x 2.54	*	.074	.037	.033	.027
332339CH	CD22/1000	22pF	1000V	5 x 2.54	*	.093	.052	.048	.044	332460CH		4700pF 5000pF		7 x 2.54 7 x 2.54	.35 .31	.30	.208	.177	.168
332216CH	CD33/50	33pF	50V	5 x 2.54	*	.056	.027	.025	.02	332400CH		7500pF		8 x 2.54	.48	.456	.323	.307	.292
15511CH	DC47	47pF	50V	5 x 2.54	*	.055	.039	.022	.017	15191CH	DC.001	.001µF		6 x 2.54	*	.067	.056	.028	.024
332347CH	CD47/1000	47pF	1000V	5 x 2.54	.42	.234	.167	.092	.08	97342CH		.001μ1 .0022μF		11 x 2.54	*	.22	.18	.16	.11
332224CH	CD68/50	68pF	50V	5 x 2.54	*	.065	.033	.029	.025	15212CH		.0047uF		6 x 2.54	*	.05	.035	.03	.02
332355CH	CD68/1000	68pF	1000V	5 x 2.54	*	.141	.095	.086	.082	15230CH	DC.01	.01µF	50V	6 x 2.54	*	.067	.045	.033	.023
15342CH	DC100	100pF	50V	5 x 2.54	*	.056	.039	.028	.022	97376CH	DC.01/1K20	.01µF	1000V	12 x 2.54	*	.20	.133	.093	.073
332232CH	CD120/50	120pF	50V	5 x 2.54	*	.056	.029	.027	.021	332486CH	CD20000/1000		1000V	16 x 2.54	.60	.57	.33	.26	.247
332363CH	CD120/1000	120pF	1000V	5 x 2.54	.23	.206	.147	.081	.071	15246CH	DC.022	.022µF	50V	8 x 2.54	*	.07	.05	.04	.03
332371CH	CD150/1000	150pF	1000V	5 x 2.54	*	.201	.143	.079	.068	15254CH	DC.047	.047µF	50V	8 x 2.54	*	.093	.077	.063	.044
15414CH	DC220	220pF	50V	5 x 2.54	*	.05	.035	.025	.015	332494CH	CD47000/1000	.047uF	1000V	16 x 2.54	1.59	1.22	.71	.68	.65
332380CH	CD220/1000	220pF	1000V	5 x 2.54	.42	.201	.143	.079	.068	332507CH	CD50000/1000	.05uF	1000V	16 x 2.54	1.35	1.28	.81	.65	.62
15449CH	DC330	330pF	50V	5 x 2.54	*	.05	.035	.025	.022	151117CH	DC.1/25	.1μF	25V	6 x 2.54	*	.155	.145	.089	.078
332398CH	CD330/1000	330pF	1000V	5 x 2.54	.42	.235	.17	.096	.091	15271CH	DC.1	.1μF	50V	8 x 2.54	*	.167	.145	.128	.105
15529CH	DC470	470pF	50V	5 x 2.54	*	.09	.072	.028	.024	332515CH	CD100000/1000	.1uF	1000V	21 x 2.54	1.95	1.79	1.05	.83	.79

					L	otner .	ıvıanu	тасц	ırers	_	Limited	i Great Deal	S							
135141CH	DC2.2	2.2pF	50V	5	*	\$.05	\$.035	\$.019	\$.015		97341CH	DC.0022/1K20	.0022µF	1000V	11	*	\$.242	\$.166	\$.097	\$.072
15333CH	DC10	10pF	50V	5	*	.063	.045	.018	.013		15211CH	DC.0047	.0047µF	50V	6	*	.056	.04	.034	.022
15405CH	DC22	22pF	50V	6	*	.07	.05	.025	.02		15229CH	DC.01	.01µF	50V	6	*	.06	.04	.03	.02
15510CH	DC47	47pF	50V	5	*	.05	.035	.02	.015		97375CH	DC.01/1K20	.01uF	1000V	12	*	.18	.12	.084	.066
15341CH	DC100	100pF	50V	5	*	.05	.035		.02		15245CH	DC.022	.022µF	50V	8	*	.063		.036	
15413CH	DC220	220pF	50V	5	*	.045	.032	.023	.013		15253CH		.047µF		8	*	.084	.069	.057	1
15448CH	DC330	330pF	50V	5	*	.045	.041	.029	.016						,	*				
15528CH	DC470	470pF	50V	5	*	.08	.065	.025	.022		151116CH		.1μF	25V	6	*	.14	.13	.08	.07
15190CH	DC.001	.001µF	50V	6	*	.06	.054	.043	.032		15270CH	DC.1	.1μF	50V	8	*	.15	.13	.115	.095
*																				

Capacitor dimensions and styles may vary



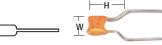


### Monolithic Ceramic Capacitors (±20%) (Z5U Series)

Applications: • Data processing

· Communications engineering Operating temp. range: -10°C to +85°C \* Prepackaged: order in increments of 10, 100 or 1000





\* Prepackaged: order in increments of 10, 100 or 1000

	Mir. Cross	1		Size (mm)			Pricing				Mir. Cross	1		Size (mm)			Pricing		
Part No.	Ref. No.	Value	! Volt.	WxTxHxL.S.	1	10	100	1000	5000	Part No.	Ref. No.	Value	Volt.	WxTxHxL.S.	1	10	100	1000	5000
81542CH	MD10	10pF	50V	3.5 x 2.0 x 3.0 x 2.54	*	\$.10	\$.065	\$.045	\$.034	81518CH	MD.001	.001µF	50V	4.5 x 2.0 x 3.0 x 2.54	*	\$.10	\$.078	\$.075	\$.068
332523CH	MOC10/100	10pF	100V	4.2 x 3.0 x 4.2 x 2.54	*	.089	.065	.046	.044	138182CH	MD.0022	.0022µF	50V	4.0 x 2.0 x 5.5 x 2.54	*	.078	.067	.055	.045
332531CH	MOC15/100	15pF	100V	4.2 x 3.0 x 4.2 x 2.54	.30	.202	.144	.101	.096	25508CH	MD.01	.01µF	50V	3.5 x 2.0 x 3.0 x 2.54	*	.09	.06	.045	.041
81534CH	MD22	22pF	50V	4.0 x 2.0 x 4.0 x 2.54	*	.105	.081	.05	.045	57622CH	MD.047	.047µF	50V	2.5 x 2.5 x 3.0 x 2.54	*	.08	.07	.05	.039
332540CH	MOC22/100	22pF	100V	4.2 x 3.0 x 4.2 x 2.54	*	.10	.073	.051	.048	25524CH	MD.1	.1µF	50V	6.0 x 2.0 x 4.0 x 2.54	*	.078	.067	.044	.039
332558CH	MOC33/100	33pF	100V	4.2 x 3.0 x 4.2 x 2.54	*	.167	.122	.08	.076	25541CH	MD.22	.22µF	50V	6.0 x 2.0 x 4.5 x 2.54	*	.189	.133	.089	.072
332566CH	MOC47/100	47pF	100V	4.2 x 3.0 x 4.2 x 2.54	*	.118	.086	.06	.057	138238CH	MD.33	.33µF	50V	6.0 x 2.0 x 8.0 x 2.54	*	.178	.155	.122	.078
332574CH	MOC68/100	68pF	100V	4.2 x 3.0 x 4.2 x 2.54	.30	.202	.144	.101	.096	25559CH	MD.47	.47µF	50V	4.5 x 2.5 x 4.5 x 2.54	*	.28	.21	.145	.133
81526CH	MD100	100pF	50V	3.5 x 2.0 x 3.0 x 2.54	*	.10	.078	.05	.039	81510CH	MD1	1µF	50V	6.0 x 3.0 x 7.0 x 2.54	.53	.48	.355	.255	.233

Other Manufacturers — Limited Great Deals*																		
/ID10	10pF	50V	3.5 x 2.0 x 3.0	*	\$.09	\$.056	\$.04	\$.027	57621CH	MD.047	.047µF	50V	2.5 x 2.5 x 3.0	*	\$.072	\$.063	\$.045	\$.027
/ID22			4.0 x 2.0 x 4.0	*	.095	.073	.045	.04	25523CH	MD.1	.1μF	50V	6.0 x 2.0 x 4.0	*	.07	.06	.04	.035
/ID100			3.5 x 2.0 x 3.0	*	.09	.07			25540CH	MD 22	 . 22uF i	50V	60x20x45	*	17	12	08	.06
				*							. ' 1			*				.07
				*							' '			- 111				-
/ID.0047	.0047µF	50V	5.0 x 2.0 x 5.5	*	.07	.056	.049	.044	25558CH	MD.47	.4/µŀ	50V	4.5 x 2.5 x 4.5	*	.25	.19	.13	.12
/ID.01	.01µF	50V	3.5 x 2.0 x 3.0	*	.10	.067	.05	.045	81509CH	MD1	1μF	50V	6.0 x 3.0 x 7.0	.48	.43	.32	.23	.21
	ID22 ID100 ID.001 ID.0022 ID.0047 ID.01	D22   22pF   100pF   100pF   10.001   .001µF   10.0022   .0047µF   10.0047µF   10.0047µF	D22   22pF   50V     D100   100pF   50V     D.001   .001µF   50V     D.0022   .0022µF   50V     D.0047   .0047µF   50V     D.01   .01µF   50V	D22   22pF   50V   4.0 x 2.0 x 4.0   10100   100pF   50V   3.5 x 2.0 x 3.0   10.001   .001μF   50V   4.5 x 2.0 x 3.0   10.0022   .0022μF   50V   4.0 x 2.0 x 5.5   10.0047   .0047μF   50V   5.0 x 2.0 x 5.5   10.01   .01μF   50V   3.5 x 2.0 x 3.0   10.01μF   50V   3.5 x 2.0 x	D10	D10	D10	D10	D10	D10	D10	D10	D10	D10	D10	D10	D10	D10



L.S.



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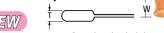
### Monolithic Ceramic Capacitors (±10%) (XR7 Series)

Applications: • Data processing Operating temp. range: -10°C to +85°C · Communications engineering

\* Prepackaged: order in increments of 10, 100 or 1000







Prenackaged: order in increments of 10, 100 or 1000

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	Mfr. Cross			Size (mm)			Pricing					Mfr. Cross			Size (mm)		- 1	Pricing		
Part No.	Ref. No.	Value	Volt.	WxTxHxL.S.	1	10	100	1000	5000	Par	rt No.	Ref. No.	Value	Volt.	WxTxHxL.S.	1	10	100	1000	5000
332582CH		100pF		5 x 5 x 3 x 2.5			Ι'	\$.081		332	2646CH	MOC10000/100	0.01µF	100V	5 x 5 x 3 x 2.5	*	\$.125	\$.09	\$.063	\$.06
		220pF 330pF	•	5 x 5 x 3 x 2.5 5 x 5 x 3 x 2.5	l	.188			.07	332	2654CH	MOC22000/100	0.022μF	100V	5 x 5 x 3 x 2.5	*	.111	.08	.056	.053
	MOC470/100		l .	5 x 5 x 3 x 2.5		.121			.076	332	2662CH	MOC47000/100	0.047µF	100V	5 x 5 x 3 x 2.5	*	.142	.104	.073	.069
332620CH	MOC1000/100	1000pF	100V	5 x 5 x 3 x 2.5	*	.107	.078	.055	.052	332	2671CH	MOC100000/100	0.1µF	100V	5 x 5 x 3 x 2.5	*	.132	.096	.067	.064
332638CH	MOC4700/100	4700pF	100V	5 x 5 x 3 x 2.5	*	.107	.078	.055	.052	332	2689CH	MOC150000/100	0.15µF	50V	5 x 5 x 3 x 2.5	.45	.408	.366	.33	.314
				_							_								<u></u> ⊢ r	n –l

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#### **Dipped Tantalum Capacitors (±10%)**

**Quantity SAVE** Resin Dipped Solid Tantalum Capacitors



Operating temp. range: -55°C to +85°C (+125°C with derating)

• Rated voltage DC: ≤ +85°C (+25°C with derating)

• Rated voltage DC: ≤ +85°C • Flame retardant coating · Low leakage current

 Exceptional temperature stability · Designed for entertainment and commercial equipment \*Cross References: Panasonic: EF Series; AVX: Tap Series; Sprague: 196D and 199D; Matsuo: 202; Kemet: T350/ T360; Mepco: 49GS; NEC: DN;

Nichicon: 599; NIC: NDTM; Hitachi: TSD-3

\* Prepackaged: order in increments of 10, 100 or 500

\* Prepackaged: order in increments of 10, 100 or 500

Part No. Ref No.†  33487CH TM.1  332110CH TDR0.1/50  33508CH TM.22  33524CH TM.33  332128CH TDR0.33/50  33532CH TM.47  332136CH TDR0.47/50  61103CH TM.68  154861CH TM1/25  33663CH TM1  332144CH TDR1/50  94002CH TM2.2/16  33735CH TM2.2/25	.1μF .1uF .22μF .33μF	Volt. 35 50 35 35	D x H x L.S. 4.5 x 7 x 2.54 4.5 x 7 x 2.54 4.5 x 7 x 2.54	.30 *	10 \$.25 .269	100 \$.19	500 \$.15
332110CH TDR0.1/50 33508CH TM.22 33524CH TDR0.33/50 335128CH TDR0.33/50 33532CH TM.47 332136CH TDR0.47/50 61103CH TM.68 154861CH TM1/25 33663CH TM1 332144CH TDR1/50 94002CH TM2.2/16	.1uF .22μF .33μF	50 35	4.5 x 7 x 2.54 4.5 x 7 x 2.54	.30			
33508CH TM.22 TM.33 TM.33 TDR0.33/50 TM.47 TM.47 TM.47 TM.47 TM.47 TM.68	.22μF .33μF	35	4.5 x 7 x 2.54		.269	104	
33524CH TM.33 332128CH TDR0.33/50 33532CH TM.47 332136CH TDR0.47/50 61103CH TM.68 154861CH TM1/25 33663CH TM1 332144CH TDR1/50 94002CH TM2.2/16	.33µF			*		. 194	.18
332128CH TDR0.33/50 33532CH TM.47 332136CH TDR0.47/50 61103CH TM.68 154861CH TM1/25 33663CH TM1 332144CH TDR1/50 94002CH TM2.2/16		35	457054	*	.25	.19	.15
33532CH TM.47 332136CH TDR0.47/50 61103CH TM.68 154861CH TM1/25 33663CH TM1 332144CH TDR1/50 94002CH TM2.2/16	.33uF		4.5 x 7 x 2.54	*	.25	.19	.15
332136CH TDR0.47/50 61103CH TM.68 154861CH TM1/25 33663CH TM1 332144CH TDR1/50 94002CH TM2.2/16		50	4.5 x 7 x 2.54	.39	.351	.227	.18
61103CH TM.68 154861CH TM1/25 33663CH TM1 332144CH TDR1/50 94002CH TM2.2/16	.47µF	35	4.5 x 7 x 2.54	*	.20	.15	.14
154861CH TM1/25 33663CH TM1 332144CH TDR1/50 94002CH TM2.2/16	.47uF	50	4.5 x 7 x 2.54	.39	.351	.24	.18
33663CH TM1 332144CH TDR1/50 94002CH TM2.2/16	.68µF	35	4.5 x 7 x 2.54	*	.25	.19	.17
<b>332144CH</b> TDR1/50 <b>94002CH</b> TM2.2/16	1μF	25	4.5 x 7 x 2.54	.32	.29	.25	.22
94002CH TM2.2/16	1μF	35	4.5 x 7 x 2.54	.32	.29	.25	.22
	1uF	50	8.0 x 5 x 2.54	.34	.30	.216	.203
33735CH TM2.2/25	2.2µF	16	4.5 x 7 x 2.54	*	.19	.16	.12
	2.2µF	35	5 x 8 x 2.54	.39	.35	.29	.22
332152CH   TDR2.2/50 !	2.2uF	50	6.5 x 11 x 2.54	.66	.58	.429	.387
<b>33770CH</b> TM3.3	3.3µF	35	5 x 8 x 2.54	.55	.36	.33	.31
94036CH TM4.7/16	4.7µF	16	5 x 8 x 2.54	.47	.38	.28	.20
94044CH TM4. 7/25	π. / μι	25	5 x 8 x 2.54	.49	.44	.33	.20

	Mfr. Cross			Size (mm)		Pric	ing	
Part No.	Ref No.†	Value	Volt.	DxHxL.S.	1	10	100	500
33807CH	TM4.7	4.7µF	35	5.5 x 9.5 x 2.54	\$.45	\$.42	\$.37	\$.27
33874CH	TM6.8	6.8µF	35	6.5 x 11 x 2.54	.59	.45	.36	.32
94061CH	TM10/16	10μF	16	5 x 8 x 2.54	.45	.39	.29	.25
94079CH	TM10/25	10μF	25	5.5 x 9.5 x 2.54	.59	.50	.40	.36
33690CH	TM10	10μF	35	5.5 x 11 x 2.54	.89	.79	.69	.59
332161CH	TDR10/50	10uF	50	8.5 x 13 x 2.54	2.75	2.42	1.97	1.82
33719CH	TM15	15μF	25	6.5 x 11 x 2.54	.89	.80	.72	.61
33752CH	TM22	22µF	6.3	5.5 x 9.5 x 2.54	.45	.37	.26	.22
94095CH	TM22/16	22µF	16	5.5 x 9.5 x 2.54	.69	.59	.49	.45
332101CH	TDR22/35	22uF	35	8.5 x 13 x 2.54	1.95	1.70	1.16	1.08
33786CH	TM33	33µF	25	8.5 x 13 x 2.54	2.35	2.09	1.62	1.05
94124CH	TM47/16	47μF	16	6.5 x 11 x 2.54	1.69	1.55	1.35	.95
33823CH	TM47	47μF	25	9.5 x 16.5 x 2.54	3.39	3.05	2.35	1.85
332099CH	TDR68/25	68uF	25	9.5 x 16.5 x 2.54	6.45	5.57	3.03	2.82
33701CH	TM100	100μF	6.3	8.5 x 13 x 2.54	1.19	1.09	.95	.85
332081CH	TDR100/20	100uF	20	8.5 x 13 x 2.54	4.85	4.29	3.03	2.81

	Other Manufacturers — Limited Great Deals*																
33486CH	TM.1	.1µF	35	4.5 x 7	\$.23	\$.225	\$.171	\$.135	33806CH	TM4.7	4.7µF	35	5.5 x 9.5	\$.41	\$.378	\$.333	\$.243
33507CH	TM.22	.22µF	35	4.5 x 7	*	.265	.182	.137	33873CH	TM6.8	6.8µF	35	6.5 x 11	.53	.48	.38	.29
33523CH	TM.33	.33µF	35	4.5 x 7	*	.225	.171	.135	94060CH	TM10/16	10μF	16	5.0 x 8	.41	.351	.261	.225
33531CH	TM.47	.47µF	35	4.5 x 7	*	.18	.135	.126	94078CH	TM10/25	10μF	25	5.5 x 9.5	.53	.45	.36	.324
61102CH	TM.68	.68µF	35	4.5 x 7	*	.225	.191	.143	33689CH	TM10	10μF	35	6.5 x 11	.80	.71	.62	.53
154860CH	TM1/25	<b>1</b> 1μF i	25	4.5 x 7	.29	.261	.225	.198	33718CH	TM15	15µF	25	6.5 x 11	.80	.72	.65	.58
33662CH	TM1	<b>1</b> 1μF	35	4.5 x 7	.29	.261	.225	.198	33751CH	TM22	22µF	6.3	5.5 x 9.5	.49	.44	.35	.26
94001CH	TM2.2/16	2.2µF	16	4.5 x 7	.29	.24	.20	.15	94094CH	TM22/16	22µF	16	5.5 x 9.5	.62	.53	.441	.405
94019CH	TM2.2/25	2.2µF	25	4.5 x 7 - <del>\$0</del>	35 .30	.232	.186	.139	94107CH	TM22/25	22µF	25	8.5 x 13	1.59	1.45	.89	.79
33734CH	TM2.2	2.2µF	35	5 x 8	.35	.315	.261	.198	33785CH	TM33	33µF	25	8.5 x 13	2.09	1.89	1.45	.95
33769CH	TM3.3	<b>i</b> 3.3μF i	35	5 x 8	.50	.324	.297	.279	94123CH	TM47/16	<b>ι</b> 47μF	16	6.5 x 11	1.55	1.39	1.25	.86
94035CH	TM4.7/16	4.7µF	16	5 x 8 - <del>\$0</del>	42 .34	.272	.218	.163	33822CH	TM47	<b>4</b> 7μF	25	9.5 x 16.5	3.05	2.75	2.09	1.65
94043CH	TM4.7/25	4.7µF	25	5 x 8	.44	.396	.297	.18	33700CH	TM100	<b>1</b> 100μF	6.3	8.5 x 13	1.09	.99	.86	.77

<sup>\*</sup>Capacitor dimensions and styles may vary

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NEW

### **Motor Capacitors**

• Operating temperature: -25°C to +85°C • Metal or plastic shell and double welding sheet metal • Insulation resistance: >300M\Omega Quick connect **Motor Running Capacitors** 

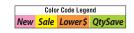
**Motor Starting Capacitors** 





	Mfr. Cross	Value		Dimensions (mm)		Pricing			Mfr. Cross	Value		Dimensions (mm)	Pricing				
Part No.	Ref No.	(μF)	Volt.	DxH	1	10	100	500	Part No.	Ref No.	(μF)	Volt.	DxH	1	10	100	500
332793CH	MRC370V2	2uF	370V	34 x 50	\$4.69	\$4.17	\$3.88	\$3.69	332697CH	MSC125V21	21uF	125V	36.5 x 69.85	\$2.35	\$2.23	\$2.12	\$2.01
332806CH	MRC370V4	4uF	370V	34 x 50	5.05	4.80	4.33	3.90	332700CH	MSC125V124	124uF	125V	36.5 x 69.85	2.75	2.61	2.48	2.36
332814CH	MRC370V5	5uF	370V	34 x 50	3.85	3.68	3.12	2.81	332718CH	MSC125V161	161uF	125V	36.5 x 69.85	2.95	2.80	2.66	2.53
332822CH	MRC370V7R5	7.5uF	370V	36 x 80	5.89	3.96	3.38	3.04	332726CH	MSC125V189	189uF	125V	36.5 x 69.85	3.09	2.94	2.79	2.65
332831CH	MRC370V10	10uF	370V	42 x 80	4.85	4.06	3.46	3.29	332734CH	MSC125V216	216uF	125V	36.5 x 85.72	3.29	3.13	2.97	2.82
332849CH	MRC370V15	15uF	370V	42 x 80	6.05	5.07	4.38	4.16	332742CH	MSC125V270	270uF	125V	36.5 x 85.72	3.59	3.41	3.24	3.08
332857CH	MRC370V25	25uF	370V	42 x 80	8.05	6.76	5.83	5.54	332751CH	MSC125V590	590uF	125V	46.02 x 111.12	6.15	5.84	5.55	5.27
332865CH	MRC440V10	10uF	440V	42 x 80	6.49	5.47	4.72	4.48	332769CH	MSC250V21	21uF	250V	36.5 x 69.85	2.95	2.80	2.66	2.53
332873CH	MRC440V20	20uF	440V	50 x 100	9.99	8.51	7.27	6.91	332777CH	MSC250V30	30uF	250V	36.5 x 69.85	3.09	2.94	2.90	2.87
332881CH	MRC440V25	25uF	440V	50 x 100	10.79	9.19	7.84	7.45	332785CH	MSC250V53	53uF	250V	46.02 x 85.72	3.85	3.25	3.02	2.87







193009CH Tape and Reel 193009CH



#### Lower \$\$\$

**Quantity SAVE** 

### **Aluminum Electrolytic Capacitors**



\* Prepackaged: order in





SALE

\* Prepackaged: order in increments of 10. 100 or 500

	increments of 10, 100 or 5				0 01 300	O Increments of 10, 100 or 500											
	Mfr. Cross	Value		Dia.		Pric	ing			Mfr. Cross	Value		Dia.		Pr	icing	
Part No.	Ref No.†	<b>(μF)</b>	Voltage	(mm)	1	10	100	500	Part No.	Ref. No.†	(μF)	Voltage	(mm)	1	10	100	500
193228CH	SE1/50	1	50	4.0	*	\$.15	\$.14	\$.11	193295CH	SE47/50	47	50	10.0	\$.33	\$.277	\$.253	\$.229
193236CH	SE2.2/50	2.2	50	4.0	*	.134	.114	.086	192903CH	SE100/6.3	100	6.3	6.3	*	.10	.092	.083
193244CH	SE3.3/50	3.3	50	4.0	*	.13	.107	.08	193033CH	SE100/16	100	16	8.0	*	.26	.23	.21
193076CH	SE427/25	4.7	25	4.0	*	.16	.13	.096	193121CH	SE100/25	100	25	8.0-\$0.3	9 .30	.27	.21	(.14)
193252CH	SE4.7/50	4.7	50	5.0	*	.17	.14	(.105)	193201CH	SE100/35	100	35	10.0 \$0.	.37	.333	.305	.277
192997CH	SE10/16	10	16	4.0	*	.14	.112	.084	193308CH	SE100/50	100	50	10.0	.46	.419	.374	.329
193084CH	SE10/25	10	25	5.0	*	.16	.13	.096	192962CH	SE220/10	220	10	8.0 -\$0.		.25	.23	.21
193164CH	SE10/35	10	35	5.0	.22	.20	.16	.12	193041CH	SE220/16	220	16	8.0 -\$0.		.432	.346	.254
193261CH	SE10/50	10	50	6.3	*	.23	.168	.146	193130CH	SE220/16	220	25	10.0	.63	.57	.468	.366
192891CH	SE22/6.3	22	6.3	4.0	*	.076	.069	.063	193210CH	SE220/25	220	35	8.0 -\$0.		.42	.34	
193009CH	SE22/16	22	16	5.0	*	.14	.119	.089									.25
193092CH	SE22/25	22	25	6.3	*	.18	.153	(115)	193316CH	SE220/50	220	50	10.0	.58	.521	.456	.34
193172CH	SE22/35	22	35	6.3	.22	.198	.158	.119	193050CH	SE330/16	330	16	10.0	.48	.432	.346	.264
193279CH	SE22/50	22	50	6.3	*	.26	.221	.165	193148CH	SE330/25	330	25	8.0	.47	.42	.34	.25
193017CH	SE33/16	33	16	5.0	*	.17	.136	.102	192920CH	SE470/6.3	470	6.3	8.0 -\$0.		.26	.24	.22
193105CH	SE33/25	33	25	6.3	*	.22	.19	.14	192971CH	SE470/10	470	10	8.0 <del>-\$0</del> .	45 .33	.30	.28	.25
193181CH	SE33/35	33	35	8.0 <b>-\$0</b> .	29 .25	.225	.18	.135	193068CH	SE470/16	470	16	10.0	.59	.527	.422	.317
193287CH	SE33/50	33	50	8.0 <del>-<b>\$0.</b></del>	35 .25	.225	.213	.201	193156CH	SE470/25	470	25	10.0	.58	.52	.474	.429
193025CH	SE47/16	47	16	6.3	*	.17	.136	102	192938CH	SE1000/6.3	1000	6.3	10.0 \$0.		.34	.31	.28
193113CH	SE47/25	47	25	6.3	.33	.30	.24	.18	192989CH	SE1000/10	1000	10	10.0-\$0.	.42	.38	.34	.31
193199CH	SE47/35	47	35	6.3	*	.25	.212	.159	192946CH	SE1500/6.3	1500	6.3	10.0 <del>\$0.</del>	<sup>59</sup> .39	.36	.32	.30

# Resin Molded Chip Tantalum Electrolytic Capacitors (±20%)

† Cross Reference: Panasonic: VS Series



#### Case Size (Dimensions in mm)

EIA	L	W	Н	P	a	
CASE CODE	±0.2	±0.2	±0.2	±0.3	±0.2	h(min)
A (3216)	3.2	1.6	1.7	0.8	1.2	0.7
B (3528)	3.5	2.8	1.9	0.8	2.0	0.7
C (6032)	6.0	3.2	2.5	1.3	2.0	1.0
D (7343)	7.3	4.3	2.9	1.3	2.4	1.0

J <u>AMECO</u>	10V SIV	IT		Pricing per each			
<b>Value</b> Pro		Case	10 pc.		Pricing		
Part No.	Capacitance	Size	Incremnt	100	500	1000	
87021CH	10μF	В	\$.258	\$.228	\$.181	\$.151	
87119CH	100μF	D	.92	.88	.83	.80	

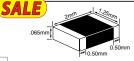
Other Manufacturers — Limited Great Deals											
87020CH	10μF	В	\$.203	\$.15	\$.136	\$.105					
87118CH	100μF	D	.80	.76	.73	.69					

JAMECO"	16V SM	Γ		Pricing per each				
<b>Value</b> Pro		Case	10 pc.					
Part No.	Capacitance	Size	Incremnt	100 500		1000		
86933CH	1µF	Α	\$.19	\$.15	\$.11	\$.105		
87039CH	10μF	С	.32	.29	.25	.23		
87101CH	47µF	D	1.01	.90	.80	.70		

Other Manufacturers — Limited Great Deals										
86932CH 1µF A \$.148 \$.133 \$.107 \$.08										
87038CH	10μF	С	.27	.239	.191	.143				
87100CH	47uF	D	.73	.70	.66	.63				

Plastic Fliptop Casefor SMDs see page 244.







# Multilayer Ceramic Chip Capacitors





#### **Z5U SERIES (±20%)**

JAMECO"	0805 SN	/IT	Pricing per each					
<b>Value</b> Pro			100 pc.	Pricing				
Part No.	Capacitance	Volt.	Incremnt	500 1000 300				
87312CH	.01µF	50	\$.07	\$.04	\$.03	\$.016		
87371CH	.1µF	25	.09	.06	.053	.048		
0.11								

X7R SERIES (±10%)

Other Manufacturers — Limited Great Deals										
87311CH	.01µF	50	\$.063	\$.036	\$.027	\$.014				
87370CH	.1µF	25	.08	.054	.048	.043				

JAMECO	1206 SN	1T	Pricing per each					
<b>Value</b> Pro			100 pc.	100 pc.				
Part No.	Capacitance	Volt.	Incremnt	500	1000	3000		
87330CH	.01µF	50	\$.078	\$.044	\$.033	\$.025		
87389CH	.1µF	50	.13	.05	.046	.045		
87397CH	.22µF	25	.25	.22	.19	.15		

Other Manufacturers — Limited Great Deals										
87329CH	.01µF	50	\$.063	\$.036	\$.027	\$.021				
87388CH	.1µF	50	.047	.03	.022	.017				
87396CH	.22µF	25	.094	.088	.082	.077				

# JAMECO' ValuePro

### 5mm Ceramic Trimmer Capacitor

Working voltage: 200VDCWithstand voltage: 400VDC

 Turning torque: 35-200 g-cm

Operating temperature range: -30°C~+85°C
Insulation resistance:

 $>10M\Omega$  min. @ 250VDC

ı	230100	,			_					
ı		Capacitance	Q Factor	Color	Pricing					
-1		Range (pF)				10				
ı	136979CH	9.0-50.0	> 200	Green	\$.89	\$.80	\$.64	\$.48		

0805 SMT			Pricing per each				
			100 pc.		Pricing		
Part No.	Capacitance	Voltage	Incremnt	500	1000	5000	
87177CH	.1µF	50	\$.033	\$.026	\$.022	\$.017	

1206 SMT			Pricing per each				
			100 pc.	Pricing			
Part No.	Capacitance	Voltage	Incremnt	500	1000	5000	
87185CH	.1µF	50	\$.072	\$.062	\$.044	\$.035	
87206CH	.22µF	50	.081	.053	.044	.03	
87222CH	.47µF	50	.225	.198	.171	.153	

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#### J<u>ameco</u> ValuePro

#### 8mm .315" Ceramic Trimmer Capacitors Thru Hole

134818CH

Working voltage: 250VDC

Withstand voltage: 550VDC

• Turning torque: 40~200 g-cm

Operating temperature range: -55°C~+85°C

• Insulation resistance:  $10M\Omega$  min. @ 250VDC

	Capacitance	Q Factor	Color	Pricing			
Part No.	Range (pF)	@ 1MHz	Codes	1	10	100	1000
134819CH	3.5-13.0	> 300	Ivory	\$.69	\$.53	\$.53	\$.446
32838CH	4.0-34.0	> 300	Yellow	.99	.84	.77	.58
32854CH	6.0-70.0	> 200	Nil	.92	.78	.72	.68
94449CH	8.5-100	> 200	Purple	1.05	.94	.76	.57
94465CH	8 5_120	> 200	Nil	QQ	79	65	50

Other Manufacturers — Limited Great Deals							
134818CH	3.5-13.0	> 300	Ivory	\$.62	\$.55	\$.45 \$.335	



# Carbon Film Resistors and Resistor Networks

# 1/4-Watt Carbon Film Resistors (±5%)







#### Assortment Pricing: 1/4-Watt Carbon Film Resistor (±5%)

Assortments may not be combined for quantity price breaks

Part No.	Description (Including bulk pack values)	1	10	25
10719CH	5 ea. 70 values (every other value from $10\Omega$ - 5.6 M $\Omega$ ) (350 pcs.)	\$9.95	\$8.95	\$7.95
103165CH	10 ea. 24 values marked (●) and 50 ea. 6 values marked (≭) (540 pcs.)	12.95	11.49	9.95
10663CH	100 ea. 27 values marked (▲) (2,700 pcs.)	24.95	22.49	20.49
10655CH	100 ea. 160 values (all resistor values in the chart below) (16,000 pcs.)	119.95	107.95	96.95
81832CH	1/4-watt resistor component cabinet kit – 30 values (540 pcs.), pg 83	27.95	24.95	22.49

### Single Resistor Value Pricing: 1/4-Watt Carbon Film Resistors (±5%)

To order: Use 5-digit part number adjacent to ohms in chart below Values may not be combined for quantity price breaks

Pricing (Sold in bags of 100 pieces)			100 pie	ece bags
Specify Part No. & Resistor Value	1 Bag	10 Bags	50 Bags	100 Bags
(see Standard Resistor Values Chart below)	\$.99/bag	\$.57/bag	\$.49/bag	\$.46/bag

#### Standard Resistor Values Chart

**x** ▲ ● see above

Part No.	Ohms	Part No.	Ohms	Part No.		Ohms	Part No.	Ohms	Part No.		Ohms									
30293CH	2.2	59192CH	15	29946CH	A×	100	31499CH	<b>A</b> 0	680	31026CH	A×	4.7k	30841CH	40	33k	30525CH	220k	29778CH		1.5M
30349CH	2.4	30197CH	16	30040CH		110	31561CH		750	31237CH	<b>A</b> •	5.1k	30912CH		36k	30576CH	240k	29794CH		1.6M
30373CH	2.7	30234CH	18	30082CH		120	31624CH		820	31270CH	<b>A</b> •	5.6k	30955CH		39k	30613CH	270k	29815CH		1.8M
30621CH	3.0	30411CH	20	30120CH		130	31691CH		910	31405CH		6.2k	31077CH		43k	30808CH	300k	30285CH		2.0M
30656CH	3.3	65736CH	22	30162CH	<b>A</b> •	150	29663CH	AX	1.0k	31430CH		6.8k	31149CH	<b>A</b> •	47k	30883CH	330k	30331CH		2.2M
30699CH	3.6	30541CH	24	59248CH		160	29719CH		1.1k	31536CH		7.5k	31309CH		51k	30939CH	360k	30365CH		2.4M
30728CH	3.9	30584CH	27	59281CH		180	29735CH	•	1.2k	31595CH		8.2k	31350CH		56k	30971CH	390k	30402CH		2.7M
30980CH	4.3	30752CH	30	59424CH		200	58931CH		1.3k	60353CH		9.1k	31456CH		62k	31093CH	430k	30648CH		3.0M
59811CH	4.7	30824CH	33	30470CH	<b>A</b> ×	220	29760CH	<b>A</b> 0	1.5k	29911CH	A×	10k	31481CH		68k	31202CH 🔺	470k	30681CH		3.3M
31211CH	5.1	30904CH	36	30568CH		240	29786CH		1.6k	30031CH		11k	31552CH		75k	31325CH	510k	30710CH		3.6M
31253CH	5.6	59723CH	39	30605CH	<b>A</b> •	270	29807CH		1.8k	30074CH		12k	31616CH		82k	31384CH	560k	30744CH		3.9M
31392CH	6.2	31069CH	43	30795CH		300	30277CH	<b>A</b> 0	2.0k	30111CH		13k	31683CH		91k	31472CH	620k	31051CH		4.7M
31421CH	6.8	31106CH ▲●	47	30867CH	<b>A</b> •	330	30314CH	<b>A</b> 0	2.2k	30146CH	<b>A</b> •	15k	29997CH	<b>A</b> ×	100k	31501CH	680k	31245CH		5.1M
31528CH	7.5	31296CH	51	30921CH		360	30357CH		2.4k	30200CH		16k	30058CH		110k	31579CH	750k	59934CH		5.6M
31587CH	8.2	31341CH	56	30963CH	•	390	30390CH	<b>A</b> 0	2.7k	30242CH		18k	30091CH		120k	31632CH	820k	31413CH		6.2M
31641CH	9.1	60089CH	62	31085CH		430	30630CH		3.0k	30429CH	•	20k	30138CH		130k	31704CH	910k	31448CH		6.8M
29882CH ▲●	10	60134CH	68	31165CH	40	470	30672CH	<b>A</b> •	3.3k	30453CH	<b>A</b> •	22k	30171CH		150k	29698CH ▲	1.0M	60206CH		7.5M
59061CH	11	60222CH	75	31317CH		510	30701CH		3.6k	30550CH		24k	30226CH		160k	29727CH	1.1M	31608CH		8.2M
30066CH	12	60302CH	82	31376CH		560	30736CH		3.9k	30592CH		27k	30269CH		180k	29743CH	1.2M	31667CH		9.1M
30103CH	13	31675CH	91	31464CH		620	59782CH		4.3k	30779CH		30k	30437CH		200k	29751CH	1.3M	29938CH	40	10M

# 1/8-Watt Carbon Film Resistor (±5%) Assortments

• 1/8-W - \$12.95/k (bulk) • 1/2-W - \$15.95/k (bulk)

	Cross	Values		Pri	cing
Part No.	Ref. No.	included	Description (see chart below)	1	10
108302CH	ASST1830	Х	10 ea. of 24 values marked by <b>X</b> and 50 ea.		
		#	of 6 values marked below by # (540 pcs.)	\$12.95	\$11.49
108290CH	ASST1827	~	100 ea. of 27 values marked by ✓ (2,700 pcs.)	29.95	26.95
108329CH	CAB182R	_	1/8-watt resistor component cabinet kit –		
			30 values (540 pcs.), see page 83	24.95	22.49

#### 1/8 & 1/2-Watt Resistor Assortments Value Chart (Ohms)

10 <b>√</b> X	150 <b>✓</b> X	330 <b>✓</b> X	680 <b>✓ X</b>	2.0k <b>√</b> X	3.3k <b>✓</b> X	5.6k <b>✓</b> X	15k <b>√</b> X	33k <b>✓</b> X	470k <b>✓</b> X
47 <b>√</b> X	220 ✔#	390 X	1.0k <b>√</b> #	2.2k <b>√</b> X	4.7k <b>√</b> #	6.8k <b>X</b>	22k <b>✓ X</b>	47k <b>✓</b> X	1.0M <b>√</b> X
100 ✔#	270 <b>✓</b> X	470 <b>✓</b> X	1.5k <b>✓</b> X	2.7k <b>√</b> X	5.1k <b>✓</b> X	10k <b>√</b> #	27k <b>X</b>	100k <b>√</b> #	10M <b>√</b> X

( ), ( ), ( ), ( ) symbols indicate Resistor values included in Assortments above and below.

# 1/2-Watt Carbon Film Resistor (±5%) Assortments

• 1/8-W - \$12.95/k (bulk) • 1/2-W - \$15.95/k (bulk)

	Cross	Values		Pri	cing
Part No.	Ref. No.	Included	Description (see chart above)	1	10
107852CH	ASST1230	Х	10 ea. of 24 values marked by X and 50 ea.		
		#	of 6 values marked by # (540 pcs.)	\$14.95	\$13.49
107844CH	ASST1227	<b>&gt;</b>	100 ea. of 27 values marked by ✓ (2,700 pcs.)	34.95	31.49
107836CH	ASST1270	-	5 ea. of 70 values (every other value from $10\Omega$ - $5.6M\Omega$ )(350 pcs.) (see chart above)	10.95	9.95
107879CH	CAB12R	_	1/2-watt resistor component cabinet kit – 30 values (540 pcs.), see page 83	29.95	26.95

### Order Anytime, Day or Night

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# Single-In-Line "SIP" Resistor Networks (±2%)

8 and 10-Pin Bussed (125mW/Resistor) ±2% Features (8BRN/10BRN):

8-pin package (7 resistors) = 8BRN 10-pin package (9 resistors) = 10BRN

 Rated power per resistor at 70°C: 125mW/ resistor

· Operating temperature range: -55°C to +125°C

 Resistance temperature coefficient: 200ppm/°C · Max. working voltage: 100V or rated

power x resistance, whichever is smaller Insulation resistance:  $10,000M\Omega$  min. at 100V

 Solderability: per MIL-R-8 · Low profile 5mm (.200" be

Low profile is compatible Cermet thick film construction

83401		10	100	1000
ody ht.)	\$.25	\$.19	\$.15	\$.12
w/ DIPs	Pr	icing for	P/N 978	326
ction	\$.24	\$.18	\$.14	\$.11

Pricing per each

	97826CH	8	10k
	97851CH	10	330
	97869CH	10	470
	97877CH	10	1.0k
5	97893CH	10	2.2k
2	24660CH	10	4.7k
-	24643CH	10	10k
4	98087CH	10	47k
1	98095CH	10	100k

Part No

Pins Ohms

#### Dual-In-Line "DIP" Resistor Networks (±2%) 16-Pin Isolated (140mW/Resistor) ±2%

Features (16IRN):

Maximum operating voltage: 100V
 Tolerance: ±2%

 Temperature coefficient: ±100ppm/°C Operating temp.: -55°C to +125°C

• Insulation resistance:  $10,000M\Omega$  min.

· Lead solderability/solvent resistance: meets requirements of MIL-R-83401

• Power rating at 70°C: 2.25 watts · Compatible with automatic

insertion equipment Copper leads for excellent heat dissipation

10 '			al B	164005CH	33
16 pins			₹	108556CH	100
3 3 3	:	: \$ \$	ЯR	108564CH	220
<b>&gt; &gt; </b>	·	. > >	3 B	108572CH	330
1	• • •	• •	ائسلة	108581CH	470
				108599CH	1.0k
	Pricing p	er each	1	108610CH	4.7k
1	10	100	1000	108628CH	10k
\$.39	\$.35	\$.31	\$.29	108644CH	100k

Part No.

#### SIP and DIP Resistor Network Cross Reference Chart

Jameco	CTS	A – B	Bourns	Dale	Beckman	Sprague	MEPCO
8BRN	770-81-R	708A	4608X-101	CSC08A01	L08-1-R	356CF X2PD	9S08 GL002
10BRN	770-101-R	710A	4610X-101	CSC10A01	L10-1-R	256CX X2PD	9S10 GL002
16IRN	761-3-R	316B	4116R-001	MDP16-03	898-3-R	916C X5SR	D16H 12-J

# 6, 8, and 10-Pin Bussed Single-In-Line "SIP" Resistor Networks (±2%)

#### 6-Pin Resistor Network, 4606X Series Value Equivalents

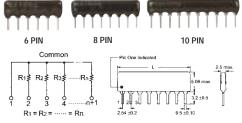
				· -				1
Part No.	Mfr. Cross Ref.	OHMs	Part No.	Mfr. Cross Ref.	OHMs	Part No.	Mfr. Cross Ref.	OHMs
267098CH	4606X-101-100	10	267872CH	4606X-101-681	680	268082CH	4606X-101-223	22k
267670CH	4606X-101-220	22	267881CH	4606X-101-821	820	268091CH	4606X-101-273	27k
267688CH	4606X-101-270	27	267899CH	4606X-101-102	1.0k	268103CH	4606X-101-333	33k
267696CH	4606X-101-330	33	267901CH	4606X-101-122	1.2k	268111CH	4606X-101-393	39k
267709CH	4606X-101-390	39	267910CH	4606X-101-152	1.5k	268120CH	4606X-101-473	47k
267717CH	4606X-101-470	47	267928CH	4606X-101-182	1.8k	268138CH	4606X-101-563	56k
267725CH	4606X-101-510	51	267936CH	4606X-101-202	2.0k	268146CH	4606X-101-683	68k
267733CH	4606X-101-560	56	267944CH	4606X-101-222	2.2k	268154CH	4606X-101-823	82k
267741CH	4606X-101-680	68	267952CH	4606X-101-272	2.7k	268162CH	4606X-101-104	100k
267750CH	4606X-101-820	82	267961CH	4606X-101-332	3.3k	268171CH	4606X-101-124	120k
267768CH	4606X-101-101	100	267979CH	4606X-101-392	3.9k	268189CH	4606X-101-154	150k
267776CH	4606X-101-121	120	267987CH	4606X-101-472	4.7k	268197CH	4606X-101-184	180k
267784CH	4606X-101-151	150	267995CH	4606X-101-512	5.1k	268200CH	4606X-101-224	220k
267792CH	4606X-101-181	180	268007CH	4606X-101-562	5.6k	268218CH	4606X-101-274	270k
267805CH	4606X-101-221	220	268015CH	4606X-101-682	6.8k	268226CH	4606X-101-334	330k
267813CH	4606X-101-271	270	268023CH	4606X-101-822	8.2k	268234CH	4606X-101-394	390k
267821CH	4606X-101-331	330	268031CH	4606X-101-103	10k	268242CH	4606X-101-474	470k
267830CH	4606X-101-391	390	268040CH	4606X-101-123	12k	268251CH	4606X-101-564	560k
267848CH	4606X-101-471	470	268058CH	4606X-101-153	15k	268269CH	4606X-101-684	680k
267856CH	4606X-101-511	510	268066CH	4606X-101-183	18k	268277CH	4606X-101-824	820k
267864CH	4606X-101-561	560	268074CH	4606X-101-203	20k	268285CH	4606X-101-105	1.0M

#### 8-Pin Resistor Network, 4608X Series Value Equivalents

Part No.	Mfr. Cross Ref.	OHMs	Part No.	Mfr. Cross Ref.	OHMs	Part No.	Mfr. Cross Ref.	OHMs
267354CH	4608X-101-100	10	276066CH	4608X-101-681	680	276277CH	4608X-101-223	22k
275864CH	4608X-101-220	22	276074CH	4608X-101-821	820	276285CH	4608X-101-273	27k
275872CH	4608X-101-270	27	276082CH	4608X-101-102	1.0k	276293CH	4608X-101-333	33k
275881CH	4608X-101-330	33	276091CH	4608X-101-122	1.2k	276306CH	4608X-101-393	39k
275899CH	4608X-101-390	39	276103CH	4608X-101-152	1.5k	276314CH	4608X-101-473	47k
275901CH	4608X-101-470	47	276111CH	4608X-101-182	1.8k	276322CH	4608X-101-563	56k
275910CH	4608X-101-510	51	276120CH	4608X-101-202	2.0k	276331CH	4608X-101-683	68k
275928CH	4608X-101-560	56	276138CH	4608X-101-222	2.2k	276349CH	4608X-101-823	82k
275936CH	4608X-101-680	68	276146CH	4608X-101-272	2.7k	276357CH	4608X-101-104	100k
275944CH	4608X-101-820	82	276154CH	4608X-101-332	3.3k	276365CH	4608X-101-124	120k
275952CH	4608X-101-101	100	276162CH	4608X-101-392	3.9k	276373CH	4608X-101-154	150k
275961CH	4608X-101-121	120	276171CH	4608X-101-472	4.7k	276381CH	4608X-101-184	180k
275979CH	4608X-101-151	150	276189CH	4608X-101-512	5.1k	276390CH	4608X-101-224	220k
275987CH	4608X-101-181	180	276197CH	4608X-101-562	5.6k	276402CH	4608X-101-274	270k
275995CH	4608X-101-221	220	276200CH	4608X-101-682	6.8k	276411CH	4608X-101-334	330k
276007CH	4608X-101-271	270	276218CH	4608X-101-822	8.2k	276429CH	4608X-101-394	390k
276015CH	4608X-101-331	330	276226CH	4608X-101-103	10k	276437CH	4608X-101-474	470k
276023CH	4608X-101-391	390	276234CH	4608X-101-123	12k	276445CH	4608X-101-564	560k
276031CH	4608X-101-471	470	276242CH	4608X-101-153	15k	276453CH	4608X-101-684	680k
276040CH	4608X-101-511	510	276251CH	4608X-101-183	18k	276461CH	4608X-101-824	820k
276058CH	4608X-101-561	560	276269CH	4608X-101-203	20k	276470CH	4608X-101-105	1.0M

#### 10-Pin Resistor Network, 4610X Series Value Equivalents

Part No.	Mfr. Cross Ref.	OHMs	Part No.	Mfr. Cross Ref.	OHMs	Part No.	Mfr. Cross Ref.	OHMs
267418CH	4610X-101-100	10	280786CH	4610X-101-681	680	280997CH	4610X-101-223	22k
280583CH	4610X-101-220	22	280794CH	4610X-101-821	820	281009CH	4610X-101-273	27k
280591CH	4610X-101-270	27	280807CH	4610X-101-102	1.0k	281017CH	4610X-101-333	33k
280604CH	4610X-101-330	33	280815CH	4610X-101-122	1.2k	281025CH	4610X-101-393	39k
280612CH	4610X-101-390	39	280823CH	4610X-101-152	1.5k	281033CH	4610X-101-473	47k
280621CH	4610X-101-470	47	280831CH	4610X-101-182	1.8k	281041CH	4610X-101-563	56k
280639CH	4610X-101-510	51	280840CH	4610X-101-202	2.0k	281050CH	4610X-101-683	68k
280647CH	4610X-101-560	56	280858CH	4610X-101-222	2.2k	281068CH	4610X-101-823	82k
280655CH	4610X-101-680	68	280866CH	4610X-101-272	2.7k	281076CH	4610X-101-104	100k
280663CH	4610X-101-820	82	280874CH	4610X-101-332	3.3k	281084CH	4610X-101-124	120k
280671CH	4610X-101-101	100	280882CH	4610X-101-392	3.9k	281092CH	4610X-101-154	150k
280680CH	4610X-101-121	120	280891CH	4610X-101-472	4.7k	281105CH	4610X-101-184	180k
280698CH	4610X-101-151	150	280903CH	4610X-101-512	5.1k	281113CH	4610X-101-224	220k
280701CH	4610X-101-181	180	280911CH	4610X-101-562	5.6k	281121CH	4610X-101-274	270k
280719CH	4610X-101-221	220	280920CH	4610X-101-682	6.8k	281130CH	4610X-101-334	330k
280727CH	4610X-101-271	270	280938CH	4610X-101-822	8.2k	281148CH	4610X-101-394	390k
280735CH	4610X-101-331	330	280946CH	4610X-101-103	10k	281156CH	4610X-101-474	470k
280743CH	4610X-101-391	390	280954CH	4610X-101-123	12k	281164CH	4610X-101-564	560k
280751CH	4610X-101-471	470	280962CH	4610X-101-153	15k	281172CH	4610X-101-684	680k
280760CH	4610X-101-511	510	280971CH	4610X-101-183	18k	281181CH	4610X-101-824	820k
280778CH	4610X-101-561	560	280989CH	4610X-101-203	20k	281199CH	4610X-101-105	1.0M



- · Miniature, high density packaging
- Operating temperature range: -55°C to +125°C
- Temperature coefficient range: ±100ppm/°C:  $50\Omega - 1.0M\Omega$ ;  $\pm 250$ ppm/°C:  $< 50\Omega$  or > 1.0M
- · Rating ambient temperature: +70°C
- · Wattage/element: 1/8 Watt
- · Max. working voltage: 100V
- · Prepackaged: order in increments of 10, 100, 500 or 1000

#### 6-Pin Resistor Network Pricing

Qty.	10	100	500	1000
Price	\$.14	\$.085	\$.076	\$.071

#### 8-Pin Resistor Network Pricing

Qty.	10	100	500	1000
Price	\$.19	\$.122	\$.114	\$.105

#### 10-Pin Resistor Network Pricing

Qty.	10	100	500	1000
Price	\$.23	\$.16	\$.14	\$.13

### 0805 Resistor Assortment (±5%)

144 Values, 50 pcs. each; 7,200 Pieces Total

			Res	istano	e Va	lue Cl	hart:		
and the factor of	1.2	10	75	430	2.0k	10k	51k	270k	2.2M
SHIP SHIPE SHIPE	1.6	16	85	470	2.2k	11k	56k	300k	2.4M
The second second second	2.2	18	91	510	2.4k	12k	62k	360k	2.7M
Contidents (	2.4	20	110	560	2.7k	13k	68k	390k	3.0M
-	2.7	22	120	620	3.0k	15k	75k	430k	3.3M
<ul><li>Size (mm):</li></ul>	3.0	24	130	680	3.3k	16k	82k	470k	3.6M
2.0L x	3.3	27	150	750	3.6k	18k	91k	510k	3.9M
1.25W x	4.3	30	160	820	3.9k	20k	100k	560k	4.3M
	4.7	33	180	910	4.3k	22k	110k	620k	4.7M
0.5Thick	5.1	39	200	1.0k	4.7k	24k	120k	750k	5.1M
<ul> <li>Max.</li> </ul>	5.6	43	220	1.1k	5.6k	27k	150k	820k	5.6M
overload	6.2	47	240	1.2k	6.2k	30k	160k	910k	6.8M
	6.8	51	270	1.3k	6.8k	33k	180k	1.0M	7.5M
voltage:	7.5	56	300	1.5k	7.5k	36k	200k	1.6M	8.2M
200V	8.2	62	360	1.6k	8.2k	39k	220k	1.8M	9.1M
<ul> <li>1/8 watts</li> </ul>	9.1	68	390	1.8k	9.1k	43k	240k	2.0M	10M

- Operating temperature: -50°C to 120°C
- Case size (two cases): 10.5"L x 6.7"W x 1.7"T
- · Weight: 1.9 lbs.

Includes: Case with labels

Part No.	Mfr. Cross Ref. No.	1	10	25
172806CH	16-500	\$79.95	\$71.95	\$64.79

### 1206 Resistor Assortment (±1%)

56 Values, 200 pcs. each; 11,200 pcs. Total

12 1 243 4.99k 90 9k 6.19k 301

20 24.3 392 499 7.5k 9.09k 150k

39.2 750 12.1k 243k

49.9

61.9

75 1.21k 90.9 1.5k 30.1k 619k

100 2k

121

150



Max. working voltage: 200V

- Power: 1/8W · Operating temperature:
- -55°C to +125°C
- Temp. coefficient: ±100 ppm/°C
- Resistor dimensions (mm): 3.10L x 1.5 W x 0.55H

Part No. Mfr. Cross Ref. No. 10 156881CH SMR1206SB ......\$99.99 \$89.99 \$79.99



Value Chart (Ohms) 3.92k

10k

15k 301k

20k 392k 24.3k 499k

39.2k 750k

100k

# Potentiometers - 24mm Linear and Audio Taper



# 1/2-Watt Linear **Taper (±10%)**

EXCLUSIVE

- · Temperature range: -55°C to +125°C
- · Non-rotational key
- Non-slotted shaft end
- Mounting hole: 0.3125"
- · Shaft diameter: 0.25"
- · Shaft length: 0.50"

Maximum panel thickness: 0.1875"



29081CH

#### Includes: Mounting hardware

Qty.		1		10		100		500
Price	\$.	.99		\$.79		\$.65		\$.55
Part No	Product No.	Ohr	ns	Part N	0	Product	No.	Ohms
29049CH	P1K		1k	29102	CH	P100K		100k
29196CH	P5K		5k	29065	СН	P1MEG		1M
29081CH	P10K	1	0k					



# **RV4N Style 2-Watt Linear Taper (±10%)**

- · Shaft diameter: 0.25"
- · Shaft length: 0.875"
- 2W @ 70°C ambient
- · Conductive plastic element
- Temp. range: -55°C to +120°C
- Non-rotational key
- Mounting hole: 0.375"
- · Maximum panel thickness: 0.25"



95417CH

Includes: Mounting hardware

Qty.	1	10	25	50
Price	\$7.39	\$6.54	\$5.45	\$4.51

Part No.	Product No.	Military No.	Ohms
241550CH	53C3-50	RV4NAYSD500A	50
241568CH	53C3-100	RV4NAYSD101A	100
241576CH	53C3-150	RV4NAYSD151A	150
241584CH	53C3-250	RV4NAYSD251A	250
241592CH	53C3-350	RV4NAYSD351A	350
183610CH	53C3-500	RV4NAYSD501A	500
13936CH	53C3-1k	RV4NAYSD102A	1k
241605CH	53C3-1.5k	RV4NAYSD152A	1.5k
241613CH	53C3-2k	RV4NAYSD202A	2k
241621CH	53C3-2.5k	RV4NAYSD252A	2.5k
241630CH	53C3-3.5k	RV4NAYSD352A	3.5k
13995CH	53C3-5k	RV4NAYSD502A	5k
13952CH	53C3-10k	RV4NAYSD103A	10k
241648CH	53C3-15k	RV4NAYSD153A	15k
241656CH	53C3-20k	RV4NAYSD203A	20k
241664CH	53C3-25k	RV4NAYSD253A	25k
95417CH	53C3-50k	RV4NAYSD503A	50k
13979CH	53C3-100k	RV4NAYSD104A	100k
241672CH	53C3-150k	RV4NAYSD154A	150k
241681CH	53C3-250k	RV4NAYSD254A	250k
241699CH	53C3-350k	RV4NAYSD354A	350k
241701CH	53C3-500k	RV4NAYSD504A	500k
241710CH	53C3-750k	RV4NAYSD754A	750k
241728CH	53C3-1Meg	RV4NAYSD105A	1M
241736CH	53C3-2Meg	RV4NAYSD205A	2M
286942CH	53C3-3Mea	RV4NAYSD305A	3M

# We're Listening to Your Requests

Email us 24/7 at NewProducts@Jameco.com with suggestions for products you'd like to see in future catalogs.



# 1/2-Watt 24mm Linear Taper (±20%)







264372CH

- Maximum voltage: 500V
- Rotational angle: 300° (±5°)
- · Withstanding voltage for 1 minute: 500VAC

#### 0.335"L shaft; solder lugs

Qty.	1	10	100	500			
Price	\$1.19	\$.91	\$.83	\$.76			
Part No.	Part No. Product No.						
255476CH	RV24A-1	0-15R1-B5	00	500			
255484CH	RV24A-1	0-15R1-B1	<	1k			
255492CH	RV24A-1	0-15R1-B2	<	2k			
255505CH	RV21A-1	0-15R1-B2	5K	2.5k			
255513CH	RV24A-1	0-15R1-B5	<	5k			
255521CH	RV24A-1	0-15R1-B1	OK	10k			
255530CH	RV24A-1	0-15R1-B2	ōΚ	25k			
255548CH	RV24A-1	0-15R1-B5	OK	50k			
255556CH	RV24A-1	0-15R1-B1	00K	100k			
255564CH	RV24A-1	0-15R1-B2	50K	250k			
255572CH	RV24A-1	RV24A-10-15R1-B500K 5					
255581CH	RV24A-1	RV24A-10-15R1-B1M 1					
255599CH	RV24A-1	0-15R1-B2	M	2M			
255601CH	RV24A-1	0-15R1-B5	M	5M			

#### 0.531"L knurled shaft; solder lugs

	10	100	500			
\$1.19	\$.91	\$.83	\$.76			
Product N	0.		Ohms			
RV24A-1	0-20K-B500	)	500			
RV24A-1	0-20K-B1K		1k			
RV24A-1	0-20K-B2K		2k			
RV24A-1	0-20K-B5K		5k			
RV24A-1	0-20K-B10H	<	10k			
RV24A-1	0-20K-B50H	<	50k			
RV24A-1	0-20K-B10	OK	100k			
RV24A-1	0-20K-B25	OK	250k			
RV24A-1	RV24A-10-20K-B500K 50					
RV24A-1	RV24A-10-20K-B1M					
RV24A-10-20K-B2M						
	Product N RV24A-1 RV24A-1 RV24A-1 RV24A-1 RV24A-1 RV24A-1 RV24A-1 RV24A-1	Product No.  RV24A-10-20K-B50( RV24A-10-20K-B1K RV24A-10-20K-B5K RV24A-10-20K-B10( RV24A-10-20K-B101 RV24A-10-20K-B500 RV24A-10-20K-B100 RV24A-10-20K-B500 RV24A-10-20K-B500 RV24A-10-20K-B500 RV24A-10-20K-B500	Product No.  RV24A-10-20K-B500  RV24A-10-20K-B1K  RV24A-10-20K-B2K  RV24A-10-20K-B5K  RV24A-10-20K-B10K  RV24A-10-20K-B10K  RV24A-10-20K-B50K  RV24A-10-20K-B50K  RV24A-10-20K-B50K  RV24A-10-20K-B50K  RV24A-10-20K-B50K			

#### 1.32"L shaft: solder lugs

	,								
Qty.	1	10	100	500					
Price	\$1.13	\$.95	\$.86	\$.79					
Part No.	Product N	Product No.							
255610CH	RV24A-	10-40R1-B5	00	500					
255628CH	RV24A-	10-40R1-B1	K	1k					
255636CH	RV24A-	RV24A-10-40R1-B2K							
255644CH	RV24A-	10-40R1-B2	.5K	2.5k					
255652CH	RV24A-	RV24A-10-40R1-B5K							
255661CH	RV24A-	10-40R1-B1	0K	10k					
255679CH	RV24A-	10-40R1-B2	5K	25k					
255687CH	RV24A-1	10-40R1-B5	0K	50K					
255695CH	RV24A-1	10-40R1-B1	00K	100k					
255708CH	RV24A-1	10-40R1-B2	50K	250k					
255716CH	RV24A-1	10-40R1-B5	00K	500k					
255724CH	RV24A-1	10-40R1-B1	M	1N					
255732CH	RV24A-1	RV24A-10-40R1-B5M							



# 1/2-Watt 24mm Linear Taper with SPST Switch (±20%)

- · Shaft length: 0.335"
- Shaft diameter: .250"
- · Terminal type: solder lugs
- Maximum voltage: 500VSwitch rating: 125VAC, 1A
- Rotational angle: 300° (±5°)



263759CH

Qty.	1	10	100	500
Price	\$1.59	\$1.36	\$1.24	\$1.13
Part No.	Product N	0.		Ohms
263759CH	RV24A07	I-10-15R1-I	3500	500
263767CH	RV24A01	I-10-15R1-I	31K	1k
263775CH	RV24A01	I-10-15R1-I	32.5K	2.5k
263783CH	RV24A01	I-10-15R1-I	35K	5k
263791CH	RV24A01	I-10-15R1-I	310K	10k
263804CH	RV24A01	I-10-15R1-I	325K	25k
263812CH	RV24A01	I-10-15R1-I	350K	50k
263821CH	RV24A01	I-10-15R1-I	3100K	100k
263839CH	RV24A01	I-10-15R1-I	3250K	250k
263847CH	RV24A01	I-10-15R1-I	3500K	500k
263855CH	RV24A0	I-10-15R1-I	B1M	1M



# 1/4-Watt 24mm Audio Taper (±20%)

- · Shaft length: 0.335'
- · Maximum voltage: 250V · Shaft diameter: .250"
- · Terminal type: solder lugs
- · Insulation resistance:
- >100M $\Omega$  @ 500VDC Rotational angle: 300° (±5°)



Qty.		10	100	500	
Price	\$1.19	\$.91	\$.83	\$.76	
Part No.	Product No	Product No.			
255396CH	RV24A-1	RV24A-10-15R1-A1K			
255417CH	RV24A-1	RV24A-10-15R1-A5K			
255425CH	RV24A-1	RV24A-10-15R1-A10K			
255433CH	RV24A-1	RV24A-10-15R1-A50K			
255441CH	RV24A-1	RV24A-10-15R1-A100K			
255450CH	RV24A-1	RV24A-10-15R1-A500K			
255468CH	RV24A-1	0-15R1-A1I	VI	1M	



# 1/4-Watt 24mm Audio Taper with SPST Switch (±20%)

10

- · Shaft length: 0.590"
- Voltage rating: 250V
- Shaft diameter: .250" · Switch rating:
- 125VAC, 1A

Rotational angle: 300° (±5°)



100 500

Price	\$1.59	\$1.30	\$1.24	\$1.13
Part No.	Product No	).		Ohms
263601CH	RV24A01	-10-15R1- <i>I</i>	A1K	1k
263610CH	RV24A01	-10-15R1- <i>I</i>	A5K	5k
263636CH	RV24A01	-10-15R1- <i>I</i>	A10K	10k
263644CH	RV24A01	-10-15R1- <i>k</i>	450K	50k
263652CH	RV24A01	-10-15R1- <i>I</i>	A100K	100k
263661CH	RV24A01	-10-15R1- <i>I</i>	4500K	500k
263679CH	RV24A01	-10-15R1- <i>A</i>	A1M	1M

# Instrumentation **Knobs** See page 145





286061CH

286598CH



# 1/5-Watt 16mm Linear Taper (±20%)

10

286352CH

Shaft Length: 0.335"L

Rated voltage: 200V Shaft diameter: .250'

Total rotation angle: 300° (±5°) Rotation life: 15,000 cycles

· Center detent

• Insulation resistance: >100M $\Omega$  @ 500VDC · Withstanding voltage: 500VAC for 1 minute

Price	\$1.35	\$1.13	\$1.04	\$.94
Part No.	Product N	0.		Ohms
286352CH	RV16A-1	0-15R1-B1I	K-OC	1k
286361CH	RV16A-1	0-15R1-B2I	K-OC	2k
286379CH	RV16A-1	0-15R1-B5I	K-OC	5k
286387CH	RV16A-1	0-15R1-B10	OK-OC	10k
286395CH	RV16A-1	0-15R1-B2	5K-OC	25k
286408CH	RV16A-1	0-15R1-B50	OK-OC	50k
286416CH	RV16A-1	0-15R1-B10	OOK-OC	100k
286424CH	RV16A-1	0-15R1-B2	50K-OC	250k
286432CH	RV16A-1	0-15R1-B50	OOK-OC	500k
286441CH	RV16A-1	0-15R1-B1I	M-OC	1M



# 1/5-Watt 16mm Linear Taper (±20%)

10

286459CH

286660CH

10k

50k

100k

100

- Shaft Length: 0.335"
- Rated voltage: 200V
- Shaft diameter: .250' Rotational angle: 300° (±5°)
- Insulation resistance: >100MΩ @500VDC
- 11-detent position
- Withstanding voltage: 500VAC, 1 minute

Price	\$1.65	\$1.38	\$1.25	\$1.13
Part No.	Product No	D.		Ohms
286459CH	RV16A-1	0-15R1-B1k	(-OD	1k
286467CH	RV16A-1	0-15R1-B2k	(-OD	2k
286475CH	RV16A-1	0-15R1-B5k	(-OD	5k
286483CH	RV16A-1	0-15R1-B10	K-OD	10k
286491CH	RV16A-1	0-15R1-B25	K-OD	25k
286504CH	RV16A-1	0-15R1-B50	K-OD	50k
286512CH	RV16A-1	0-15R1-B10	00K-OD	100k
286521CH	RV16A-1	0-15R1-B25	0K-OD	250k
286539CH	RV16A-1	0-15R1-B50	00K-OD	500k

RV16A-10-15R1-B1M-OD



286547CH

# 1/5-Watt 16mm Linear Taper with DPDT Switch (±20%)

- · Shaft length: 0.335" Rated voltage: 200V
- Shaft diameter: .250"
- Terminal type: solder lugs Switch rating: 0.3A; 30VDC

- Rotation angle: 300° (±5°) Rotation life: 15,000 cycles
- Switch life: 10,000 times
- Insulation resistance: >100M $\Omega$  @ 500VDC · Dielectric strength: 500VAC for 1 minute

Qty.	1	10	100	500
Price	\$3.55	\$2.96	\$2.70	\$2.45
Part No.	Product No.			Ohms
286660CH	RV16B-10	-15R1-B1I	<	1k
286678CH	RV16B-10	-15R1-B5I	<	5k

RV16B-10-15R1-B10K

RV16B-10-15R1-B50K

RV16B-10-15R1-B100K



# 1/5-Watt 16mm Linear Taper with DPDT Switch (±20%)

- · Shaft length: 0.335"
- Rated voltage: 200V Shaft diameter: .250"
- Terminal type:
- PC terminals (horizontal)
- Switch rating: 0.3A; 30VDC
- Rotation angle: 300° (±5°)
- Rotation life: 15,000 cycles
  Switch life: 10,000 times
- Insulation resistance: >100MΩ @ 500VDC
- · Dielectric strength: 500VAC for 1 minute

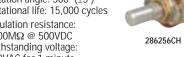
1	10	100	500
\$3.55	\$2.96	\$2.70	\$2.45
Product N	Product No.		
RV16B-2	RV16B-20-15R1-B10K		
RV16B-2	RV16B-20-15R1-B50K		
RV16B-2	RV16B-20-15R1-B100K		
	\$3.55 Product N RV16B-2 RV16B-2	\$3.55 \$2.96 Product No. RV16B-20-15R1-B1 RV16B-20-15R1-B5	\$3.55 \$2.96 \$2.70  Product No.  RV16B-20-15R1-B10K  RV16B-20-15R1-B50K



500

# 1/5-Watt 16mm Linear Taper (±20%)

- Shaft Length: 0.335'
- Rated voltage: 200V
- Shaft diameter: .250" Rotation angle: 300° (±5°)
- Rotational life: 15,000 cycles
- · Insulation resistance: >100MΩ @ 500VDC
- Withstanding voltage:



500VAC	for 1 minute			
Qty.	1	10	100	500
Price	\$1.15	\$1.00	\$.87	\$.80

Part No.	Product No.	Ohms
286248CH	RV16A-10-15R1-B1K	1k
286256CH	RV16A-10-15R1-B2K	2k
286264CH	RV16A-10-15R1-B5K	5k
286272CH	RV16A-10-15R1-B10K	10k
286281CH	RV16A-10-15R1-B25K	25k
286299CH	RV16A-10-15R1-B50K	50k
286301CH	RV16A-10-15R1-B100K	100k
286310CH	RV16A-10-15R1-B250K	250k
286328CH	RV16A-10-15R1-B500K	500k
286336CH	RV16A-10-15R1-B1M	1M
286344CH	RV16A-10-15R1-B1.2M	1.2M



# 1/5-Watt 16mm Linear Taper with SPST Switch (±20%)

- Shaft Length: 0.374" Rated voltage: 200V
- Shaft diameter: .250"
- Terminal type: PC terminal (vertical; back)
- Total rotation angle: 270° (±5°)
- · Rotation life: 100,000 cycles
- · Switch life: 10,000 times
- Insulation resistance: >100MΩ @ 500VDC
- Switch contact resistance: <100mΩ</li>
- · Switch rating: 250VAC 10A

Qty.	1	10	100	500
Price	\$2.25	\$1.90	\$1.73	\$1.57
Part No.	Product No	).		Ohms
286766CH	RV16C-40-16F1-B5K			5k
286774CH	RV16C-40-16F1-B10K			10k
286782CH	RV16C-40	0-16F1-B50	ΙK	50k
286791CH	RV16C-40	0-16F1-B50	UNK	500k



286740CH

# 1/8-Watt 16mm Linear Taper

- · Shaft length: 0.531"
- Rated voltage: 200V
- Shaft diameter: .250'
- Rotational angle: 300° (±5°)
- Rotation life: 15,000 cycles Rotational noise: 47mV
- · Insulation resistance: >100MΩ @ 500VDC
- Tolerance: <1MΩ (±20%); ≥1MΩ (±30%)</li>
- · Dielectric strength: 500VAC for 1 minute

Price	\$1.19	\$1.00	\$.83	\$.70
Part No.	Product No	).		Ohms
286061CH	RV16A-1	0-20R1-B1I	<	1k
286184CH	RV16A-1	0-20R1-B2I	<	2k
286192CH	RV16A-1	0-20R1-B5I	<	5k
286205CH	RV16A-1	0-20R1-B10	)K	10k
286213CH	RV16A-1	0-20R1-B50	)K	50k
286854CH	RV16A-1	0-20R1-B10	)0K	100k
286221CH	RV16A-1	0-20R1-B50	)0K	500k
286230CH	RV16A-1	0-20R1-B1I	VI	1M



# 1/8-Watt 16mm Linear Taper with SPST Switch (±20%)

- · Shaft Length: 0.335"
- Shaft diameter: .250" · Terminal type:
- solder lugs double row
- Rated voltage: 200V
- Total rotation angle: 300° (±5°)
- Rotation life: 15,000 cycles
- · Insulation resistance:
- >100MΩ @ 500VDC Withstanding voltage: 500VAC for 1 minute
- Switch contact resistance:  $20m\Omega$
- Switch rating: 12VDC/1A

Qty.	1	10	100	500
Price	\$1.95	\$1.62	\$1.47	\$1.34
Part No.	Product No.			Ohms

Part No.	Product No.	Ohms
286598CH	RV16A03-10-15R1-B1K	1k
286601CH	RV16A03-10-15R1-B5K	5k
286619CH	RV16A03-10-15R1-B10K	10k
286627CH	RV16A03-10-15R1-B50K	50k
286635CH	RV16A03-10-15R1-B100K	100k
286643CH	RV16A03-10-15R1-B500K	500k
286651CH	RV16A03-10-15R1-B1M	1M



286766CH

# 1/10-Watt 16mm Audio Taper (±20%)

- Shaft length: 0.335"
- Rated voltage: 200V
- Shaft diameter: .250'
- Rotational angle: 300° (±5°)
- · Rotational life: 15,000 cycles
- Rotational noise: 47mV
- Insulation resistance:
- >100MΩ @ 500VDC
- Withstanding voltage: 500VAC for 1 minute
- 11-detent positions

Qty.	1	10	100	500			
Price	\$1.65	\$1.38	\$1.25	\$1.13			
Part No.	Product No	Product No.					
286555CH	RV16A-1	RV16A-10-15R1-A10K-OD					
286563CH	RV16A-1	RV16A-10-15R1-A50K-OD					
286571CH	RV16A-1	RV16A-10-15R1-A100K-OD					
204E0UCH	D\/16/\ 1	11/					



286555CH



286686CH

286694CH

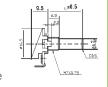
286707CH

# 1/5-Watt 16mm Linear Taper (±20%)

EXCLUSIV

- · Insulation resistance: 100MΩ @ 500VDC
- · Number of detents: 10
- · Maximum panel
- thickness: 0.15" · Shaft length: 0.605"
- Maximum operating voltage: 150VAC
- Shaft diameter: 0.235"
- · Rotational life: 15,000 cycles
- Mounting hole: 0.27"

Includes: Mounting hardware



Part No.	Mfr. Cross Ref.	Ohms	1	10	100	500
163563CH	PMD401	10k	\$1.65	\$1.49	\$1.35	\$1.09



# 5-Watt Linear Taper Wire Wound (±20%)

- Temp. range: -10°C to 70°C Shaft diameter: 0.23" (6mm)
- · Shaft length: 0.67",
- except P/N 140521CH (0.25") Non-rotational key
- Mounting hole: 0.32"
- Maximum panel thickness: 0.1" Includes: Mounting hardware



Part No.	Mfr. Cross Ref.	Ohms	1	10	50	100
140513CH	PW5B100	100	\$2.79	\$2.35	\$2.25	\$2.10
140521CH						2.10



# 2-Watt Linear Taper Wire Wound (10-turn)

- Resistance tolerance: ±10%
- · 10-turn; wirewound
- · Load life: 1000 hours, 2W
- · Insulation resistance: (500VDC) 1000M $\Omega$  minimum
- Àbsolute minimum resistance:  $1\Omega$  or 0.1% maximum



Part No. Product No. **Ohms** 10 183548CH 3540S-1-502 5k ... **\$12.79** \$12.35 \$11.89 183521CH 3540S-1-103 10k ... 12.79



# 2-Watt Linear Taper Wire Wound (±20%)

- Temp. range: -10°C to +70°C
- Shaft diameter: 0.25"
- Mounting hole: 0.375"
- Non-rotational key Length: 0.825"
- Base length: 0.25"



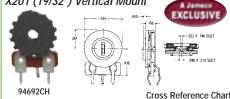






# 1/4-Watt Miniature **Linear (±20%)**

X201 (19/32") Vertical Mount



15mm thick Power rating:

below  $5k\Omega - 1/4 v$  $5k\Omega$  & above – 1/4 Total rotation: 260° ±5° · Voltage rating: 350 VDC

	CTS	X201R	
vatt @ 40°C	Bourns	3355X	
4 watt @ 55°C	PIHER	PT15	

Equivalent to

**Cross Reference Chart** 

Equivalent to:

CT-6P

PVC6

Bourns

Copal

Vishay

182852CH 3362P-105

Beckman Bourns

Mepcopal MEC

Murata

Weston

95484CH

Cross Ref. Chart

Equivalent to:

3329P

3321P

567

8050

ı					
	Qty.	1	10	100	500
	Price	\$.45	\$.39	\$.35	\$.29
L					

Part No.	Cross Ref No.	Ohms	Part No.	Cross Ref No.	Ohms
94692CH	X201R1K	1k	172136CH	X201R25K	25k
35502CH	X201R252B	2.5k	94721CH	X201R50K	50k
94705CH	X201R5K	5k	94730CH	X201R100K	100k
94713CH	X201R10K	10k			

Other	Manufacturer:	s — Lin	nited Gr	eat De	als
Part No.	Mfr. Cross Ref.	Ohms	1	10	100
313664CH	201R50K	50k	\$.32	\$.256	\$.238

# 1/2-Watt Trimming Potentiometers (±10%)

#### 3362P Series

- · Linear taper
- Insulation resistance: 500VDC 1,000MΩ minimum
- Absolute minimum 191644CH resistance:1% or  $2\Omega$  maximum
- Contact resistance variation: 1% or 3Ω maximum
- Rotational life: 200 cycles

**182810CH** 3362P-501

- · Terminals: solderable pins · Top adjustment: 240° nominal

•	wiper	positioning:	50%	nomina

1 1					
Qty.		1	10	100	500
Price	\$.	69	\$.62	\$.47	\$.42
Part No.	Cross Ref No.	Ohms	Part No	o. Cross Re	ef No. Ohms
191644CH	3362P-200	20	18283	<b>3362P</b> -	103 10k
189341CH	3362P-500	50	18284	<b>14CH</b> 3362P-	204 200k

# 182828CH 3362P-502 1/2-Watt, 1/4" Round, Cermet (±10%)

#### 3329P Series Value Equivalents



Sealed to withstand wave soldering and immersion cleaning process

Extended temperature range: -55°C to +150°C TO-5 grid • Top adjustment

· Terminals: solderable pins

Qty.			1		10		100		500
Price		\$1.8	89		\$1.59		\$1.29	\$	1.19
Part No.	C	ross Ref No.	0h	ms	Part No	).	Cross Re	f No.	Ohms
95441CH	3	329P-102		1k	96719	СН	3329P-	103	10k
95450CH	3	329P-502		5k	95484	СН	3329P-	104	100k

# 1/2-Watt, 3/8" Square, Single-Turn Cermet (±10%)

- Top adjustment
- 1/2 watt linear taper @ 70°C
- PĊ pins: .100"
- grid (2.54mm) Temperature range: 42964CH
- -55°C to +125°C Sealed to guard
- against contaminants Pin spacing: 0.1" († P/N 43060 P/N 105216CH: 0.2")

	Equivale	nt to:
	Allen Bradley	E2B
	Beckman	72PR
	Bourns	3386P
	Mepcopal	8038
	Murata	3104P
	Spectrol	63P
	VRN	780-12P
	Weston	840P
OC	H &	

Cross Ref. Chart

	•			Quant	tity SA\	<b>/E</b> )
Part No.	Mfr. Cross Ref. No.	Ohms	1	10	100	500
43123CH	63P500	500	\$.85	\$.79	\$.69	\$.49
42964CH	63P1K	1k	85	.76	.61	.46
43043CH	63P2K	2k	85	.76	.61	.46
43078CH	63P5K	5k	85	.79	.69	.49
43001CH	63P10K	10k	85	.79	.69	.49
43051CH	63P20K	20k	85	.76	.61	.46
43107CH	63P50K	50k	85	.79	.69	.49
43027CH	63P100K	100k	85	.79	.69	.49
43060CH	63P300K	300k	85	.76	.61	.46
63212CH	63P500K	500k	85	.79	.69	.49
42981CH	63P1MEG	1M	85	.79	.69	.49
105216CH	63P2MEG <sup>†</sup>	2M	85	.76	.61	.46

# 3/4-Watt, 3/4" Rectangular 15-Turn Linear Cermet (±10%)



	ا	١	ं डि	
	Ī	Ī		(3.30)
.500		*	.200 (5.08)	
(12.70)	1-		-1	

CIUSS REI	Gilait
Equivale	nt to:
Allen Bradley	94P
Beckman	89PR
Bourns	3006P
Litton	6034Y
Mepcopal	8034
Murata	2101P
Spectrol	43P
VRN	961-20
Weston	830P

Cross Dof Charl

- PC pins: .100" grid (2.54mm)
- Side adjustment
- Temperature range: -55°C to +125°C
- Sealed to guard against contaminants

Qty.		1		10		100		500
Price	\$1.	05		\$.99		\$.89		\$.75
Part No	Cross Ref No.	Ohi	ms	Part No	)	Cross Re	f No.	Ohms
181972CH	43P201	2	00	41873	BCH	43P20k	(	20k
41937CH	43P500	50	00	41911	CH	43P50k	(	50k
41785CH	43P1K		1k	41849	CH	43P100	ΙK	100k
41865CH	43P2K		2k	63001	CH	43P200	)K	200k
41890CH	43P5K		5k	41953	BCH	43P500	)K	500k
41822CH	43P10K	1	0k	41806	CH	43P1M	EG	1M

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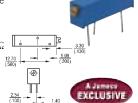
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# 3/4-Watt, 3/4" Rectangular, **15-Turn Cermet Potentiometer** Side Adjustment (±10%)

#### 3006P Series Value Equivalents

- · Low PC board profile
- Temperature range:
- -55°C to 125°C
- · Absolute minimum
- resistance: 1% or  $2\Omega$  Contact resistance variation: 1% or  $1\Omega$  maximum
- · Power rating: 0.75W @ 70°C (400V maximum)



Qty.		1		10		50		100
Price	\$1	.25		\$1.15		\$.99		\$.89
Part No.	Cross Ref No	. Oh	ms	Part N	0.	Cross R	ef No.	Ohms
241234CH	3006P-101	1	00	24131	4CH	3006P-	253	25k
241242CH	3006P-201	2	00	24132	2CH	3006P-	503	50k
241251CH	3006P-501	5	00	24133	1CH	3006P-	104	100k
241269CH	3006P-102		1k	24134	9СН	3006P-	204	200k
241277CH	3006P-202		2k	24135	7СН	3006P-	254	250k
241285CH	3006P-502		5k	24136	5CH	3006P-	504	500k
241293CH	3006P-103	1	0k	24137	зсн	3006P-	105	1M
241306CH	3006P-203	2	0k					



Price

# 1/4-Watt, 1/4" Square Trimming Potentiometers, **Top Adjustment (±10%)**

#### 3266W Series Value Equivalents

- · Resistance tolerance: ±10%
- · 12-turns nominal
- Insulation resistance (500VDC) 1,000M $\Omega$  minimum
- · Contact resistance variation: 3% or 3 $\Omega$  maximum (whichever is greater)
- · Absolute min. resistance: 1% or  $2\Omega$  maximum (whichever is greater)
- Power rating: 0.25W @ 70°C (300V maximum)

\$2.29



10

\$1.99

Part No.	Product No.	Ohms	Part No.	Product No.	0hm:
254609CH	3266W-500	50	254684CH	3266W-203	201
254617CH	3266W-101	100	254692CH	3266W-253	251
254625CH	3266W-201	200	254705CH	3266W-503	50
254633CH	3266W-501	500	254713CH	3266W-104	100
254641CH	3266W-102	1k	254721CH	3266W-204	200
254650CH	3266W-202	2k	254730CH	3266W-504	500
254668CH	3266W-502	5k	254748CH	3266W-105	11
254676CH	3266W-103	10k			

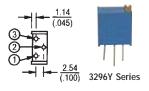
See page 43 for Digital Potentiometers.

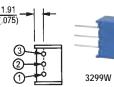


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100

# 1/2-Watt, 3/8" Square, Multi-Turn Trimming Potentiometers, **Top Adjustment (±10%)**











#### 3296Y, 3299W, and 3299Y Series

- Resistance tolerance: ±10%
- Insulation resistance: (500VDC) 1000M $\Omega$  min.
- Absolute minimum resistance: 1% or  $2\Omega$  max.

# Attention Budget-Minded Buyers!

Jameco now offers high-quality Bourns® equivalents below, and they're priced to save you money. You'll get consistent form,

fit and fur the added name com

the ad		n, without paying charge for brand ents.	EXCLUSIVE
JAMECO	<b>Value</b> Pro	3296Y - Y Layout	Solder Pins

					-				
Qty.			1		10		50		100
Price		\$1	.89		\$1.69		\$1.49		\$1.35
Part No.	Р	roduct No.	Ohi	ms	Part N	lo.	Product	No.	Ohms
240696CH	3	296Y-100		10	2407	34CH	3296Y-	103	10k
240709CH	3	296Y-200		20	2407	92CH	3296Y-	203	20k
240717CH	3	296Y-500		50	2408	D5CH	3296Y-	253	25k
240725CH	3	296Y-101	1	00	2408	13CH	3296Y-	503	50k
240733CH	3	296Y-201	2	00	2408	21CH	3296Y-	104	100k
240741CH	3	296Y-501	5	00	2408	30CH	3296Y-	254	250k
240750CH	3	296Y-102		1k	2408	48CH	3296Y-	504	500k
240768CH	3	296Y-202		2k	2408	56CH	3296Y-	105	1M
240776CH	3	296Y-502		5k	2408	64CH	3296Y-	205	2M

JAMECO Va	<b>lue</b> Pro	3299	W – In-Li	ne Soldei	Pins
Qty.		1	10	50	100
Price		\$2.09	\$1.99	\$1.75	\$1.55

i ait ivo.	i roduct No.	OHIII3	i dit NO.	i roduct No.	OHIIII
241058CH	3299W-100	10	241146CH	3299W-103	10k
241066CH	3299W-200	20	241154CH	3299W-203	20k
241074CH	3299W-500	50	241162CH	3299W-253	25k
241082CH	3299W-101	100	241171CH	3299W-503	50k
241091CH	3299W-201	200	241189CH	3299W-104	100k
241103CH	3299W-501	500	241197CH	3299W-254	250k
241111CH	3299W-102	1k	241200CH	3299W-504	500k
241120CH	3299W-202	2k	241218CH	3299W-105	1M
241138CH	3299W-502	5k	241226CH	3299W-205	2M

JAMECO"	<b>Value</b> Pro	3299	Y – Y Lay	out Solde	er Pins
Qty.		1	10	50	100
Price		\$2.09	\$1.99	\$1.75	\$1.55

I	Part No.	Product No.	Ohms	Part No.	Product No.	Ohms
I	240872CH	3299Y-100	10	240961CH	3299Y-103	10k
I	240881CH	3299Y-200	20	240979CH	3299Y-203	20k
I	240899CH	3299Y-500	50	240987CH	3299Y-253	25k
I	240901CH	3299Y-101	100	240995CH	3299Y-503	50k
I	240910CH	3299Y-201	200	191409CH	3299Y-104	100k
I	191417CH	3299Y-501	500	241015CH	3299Y-254	250k
I	191396CH	3299Y-102	1k	241023CH	3299Y-504	500k
I	240944CH	3299Y-202	2k	241031CH	3299Y-105	1M
I	191425CH	3299Y-502	5k	241040CH	3299Y-205	2M

#### · 25-turns nominal

Qty.

Price

Price

- Contact resistance variation: 1% or  $3\Omega$  max.
- Power rating: 0.5W @ 70°C (300V max.)

#### Bourns® Potentiometers

Jameco now offers a broad selection of industryrenowned Bourns multi-turn potentiometers below. They're ideal for integration into devices requiring high-precision pots.

# 3296Y – Y Layout Solder Pins

Qty.			1		10		50		100
Price		\$2.	05		\$1.89		\$1.66	\$	1.49
Part No.	Pr	roduct No.	Ohi	ns	Part N	0.	Product	No.	Ohms
240338CH	32	296Y-1-100	)	10	24042	26CH	3296Y-	1-103	10k
240346CH	32	296Y-1-200	)	20	24043	34CH	3296Y-	1-203	20k
240354CH	32	296Y-1-500	)	50	24044	I2CH	3296Y-	1-253	25k
240362CH	32	296Y-1-101	1 1	00	24045	1CH	3296Y-	1-503	50k
240371CH	32	296Y-1-201	1 2	00	24046	9СН	3296Y-	1-104	100k
240389CH	32	296Y-1-501	1 5	00	24047	77CH	3296Y-	1-254	250k
240397CH	32	296Y-1-102	2	1k	24048	B5CH	3296Y-	1-504	500k
240400CH	32	296Y-1-202	2	2k	24049	3СН	3296Y-	1-105	1M
240418CH	32	296Y-1-502	2	5k	24050	6CH	3296Y-	1-205	2M

# 3299W - In-Line Solder Pins

\$2.39

10

\$2.25

50

\$1.99

\$1.79

100

\$1.79

\$1.59

Part No.	Product No. (	hms	Part N	0.	Product	No.	Ohms
238553CH	3299W-1-100	10	18356	4CH	3299W-	1-103	10k
238561CH	3299W-1-200	20	23863	3СН	3299W-	1-203	20k
238570CH	3299W-1-500	50	23864	1CH	3299W-	1-253	25k
238588CH	3299W-1-101	100	23865	OCH	3299W-	1-503	50k
238596CH	3299W-1-201	200	18357	2CH	3299W-	1-104	100k
238609CH	3299W-1-501	500	23866	8CH	3299W-	1-254	250k
183556CH	3299W-1-102	1k	23867	6CH	3299W-	1-504	500k
238617CH	3299W-1-202	2k	23868	4CH	3299W-	1-105	1M
238625CH	3299W-1-502	5k	23869	2CH	3299W-	1-205	2M

#### 3299Y – Y Layout Solder Pins Qty. 10 50 100

\$2.19

\$2.39

Part No.	Product No.	Ohms	Part No.	Product No.	Ohms
240514CH	3299Y-1-100	10	240602CH	3299Y-1-103	10k
240522CH	3299Y-1-200	20	240611CH	3299Y-1-203	20k
240531CH	3299Y-1-500	50	240629CH	3299Y-1-253	25k
240549CH	3299Y-1-101	100	240637CH	3299Y-1-503	50k
240557CH	3299Y-1-201	200	240645CH	3299Y-1-104	100k
240565CH	3299Y-1-501	500	240653CH	3299Y-1-254	250k
240573CH	3299Y-1-102	1k	240661CH	3299Y-1-504	500k
240581CH	3299Y-1-202	2k	240670CH	3299Y-1-105	1M
240590CH	3299Y-1-502	. 5k	240688CH	3299Y-1-205	2M

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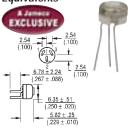




# 1/2-Watt, 1/4" Round, Cermet Potentiometers Top Adjustment (±10%)

#### 3329P Series Value Equivalents

- · Sealed to withstand wave soldering and immersion cleaning process
- Extended temperature range: -55°C to +150°C
- TO-5 grid
- Terminals: solderable pins



Qty.		1		10		50		100
Price	\$1	.69		\$1.53		\$1.29	\$	1.21
Part No.	Cross Ref No	. Oh	ms	Part N	0.	Cross Re	ef No.	Ohms
254457CH	3329P-500		50	25453	7СН	3329P-	203	20k
254465CH	3329P-101	1	00	25454	5CH	3329P-	253	25k
254473CH	3329P-201	2	00	25455	3СН	3329P-	503	50k
254481CH	3329P-501	5	00	25456	1CH	3329P-	104	100k
254490CH	3329P-102		1k	25457	OCH	3329P-	204	200k
254502CH	3329P-202		2k	25458	8CH	3329P-	504	500k
254511CH	3329P-502		5k	25459	6CH	3329P-	105	1M
254529CH	3329P-103	1	0k					

# 1/2-Watt, 3/8" Square, Single-**Turn Trimming Potentiometers Top Adjustment (±10%)**

#### 3386P Series Value Equivalents

- Resistance tolerance: ±10%
- · Absolute minimum resistance:  $2\Omega$  maximum
- · Contact resistance variation: 2% or  $3\Omega$  maximum
- Power rating: 0.5W @ 85°C



Qty.		- 1		10		50		100
Price	\$.	85		\$.76		\$.67		\$.64
Part No.	Cross Ref No.	Ohi	ms	Part N	0.	Cross Re	ef No.	Ohms
254289CH	3386P-500		50	25437	77CH	3386P-	253	25k
254297CH	3386P-101	1	00	25438	35CH	3386P-	503	50k
254300CH	3386P-201	2	00	25439	3СН	3386P-	104	100k
254318CH	3386P-501	5	00	25440	6CH	3386P-	204	200k
254326CH	3386P-102		1k	25441	4CH	3386P-	254	250k
254334CH	3386P-202		2k	25442	2CH	3386P-	504	500k
254342CH	3386P-502		5k	25443	31CH	3386P-	105	1M
254351CH	3386P-103	1	0k	25444	I9CH	3386P-	205	2M
254369CH	3386P-203	2	0k					

# JAMECO 1/2-Watt, 1/4" Square, Single-**Turn Cermet Potentiometers** Top Adjustment (±10%)

EXCLUSIVE

#### 3362P Series Value Equivalents

- Resistance tolerance: ±10%
- · Insulation resistance: (500VDC) 1,000M $\Omega$
- Absolute minimum resistance: 1% or  $2\Omega$ (whichever is greater)
- Contact resistance variation: 2.54

(whichev Power ra	2 maximum er is greater) ting: 70°C (300V r		1 (	*   2 3	t
)tv	1	10		50	

Qty.			1		10		50		100
Price		\$.	59		\$.55		\$.45		\$.42
Part No.	С	ross Ref No.	Ohi	ms	Part N	0.	Cross R	ef No.	Ohms
253964CH	3	362P-101	1	00	25400	1CH	3362P-	203	20k
253972CH	3	362P-201	2	00	25401	9CH	3362P-	253	25k
254078CH	3	362P-501	5	00	25402	27CH	3362P-	503	50k
253981CH	3	362P-102		1k	25403	35CH	3362P-	104	100k
253999CH	3	362P-202		2k	25410	7CH	3362P-	204	200k
254086CH	3	362P-502		5k	25404	I3CH	3362P-	504	500k
254094CH	3	362P-103	1	0k	25411	5CH	3362P-	105	1M



# 1/2-Watt, 3/8" Square, Single-**Turn Trimming Potentiometers** Side Adjustment (±10%)

#### 3386W Series Value Equivalents

- Resistance tolerance: ±10%
- Insulation resistance: (500VDC)  $1,000M\Omega$  minimum
- Absolute minimum
- resistance:  $2\Omega$  maximum · Contact resistance variation: 2% or  $3\Omega$  maximum
- (whichever is greater) Adjustment angle: 280° nominal

Qty.

EXC	LUSIVE	
<u>2</u>	.44	2.54 (.100)
10	50	100

F	rice		\$.	89		\$.79		\$.69		\$.65
Pa	art No.	C	ross Ref No.	Ohi	ms	Part N	lo.	Cross Re	ef No.	Ohms
2	41381CH	3	386W-500		50	2414	70CH	3386W	-253	25k
2	41390CH	3	386W-101	1	00	2414	88CH	3386W	-503	50k
2	41402CH	3	386W-201	2	00	2414	96CH	3386W	-104	100k
2	41411CH	3	386W-501	5	00	2415	09CH	3386W	-204	200k
2	41429CH	3	386W-102		1k	2415	17CH	3386W	-254	250k
2	41437CH	3	386W-202		2k	2415	25CH	3386W	-504	500k
2	41445CH	3	386W-502		5k	2415	33CH	3386W	-105	1M
2	41453CH	3	386W-103	1	0k	2415	41CH	3386W	-205	2M
24	41461CH	3	386W-203	2	0k					

3.53 (.139)

# JAMECO 1/2-Watt, 1/4" Square, Single-**Turn Cermet Potentiometers** Side Adjustment (±10%)

EXCLUSIVE

#### 3362W Series Value Equivalents

- Resistance tolerance: ±10%
- · Insulation resistance: (500VDC) 1,000M $\Omega$
- Absolute minimum resistance: 1% or  $2\Omega$ (whichever is greater)
- Contact resistance variation: 1% or  $3\Omega$  maximum

<ul> <li>Power ra</li> </ul>	er is greater) ting: 70°C (300V i	1.0	220) 3 2	(.185) (1
Qty.	1	10	50	100
Price	\$.59	\$.54	\$.45	\$.41

Price	\$.	59	\$.54	\$.45	\$.41
Part No.	Cross Ref No.	Ohms	Part No.	Cross Ref No.	Ohms
254140CH	3362W-101	100	254211CH	3362W-203	20k
254158CH	3362W-201	200	254220CH	3362W-253	25k
254166CH	3362W-501	500	254238CH	3362W-503	50k
254174CH	3362W-102	1k	254246CH	3362W-104	100k
254182CH	3362W-202	2k	254254CH	3362W-204	200k
254191CH	3362W-502	5k	254262CH	3362W-504	500k
254203CH	3362W-103	10k	254271CH	3362W-105	1M



Qty.

Pric

100

\$.56

# JAMECO 1/2-Watt, 3/8" Square, Single-ValuePro Turn Trimming Potentiometers **Side Adjustment (±10%)**

#### 3386X Series Value Equivalents

- Resistance tolerance: ±10% · Insulation resistance:
- (500VDC) 1,000M $\Omega$  min. PACILIBIN
- Absolute minimum resistance:  $2\Omega$  maximum
- · Contact resistance va
- (w Pc
  - 0.

ower rating: \(\frac{1.40 \pm .38}{(.055 \pm .015)}\) \(\frac{2.54}{(.100)}\)
. 1 10 50 100
ce \$.85 \$.76 \$.67 \$.64

Part No.	Cross Ref No.	Ohms	Part No.	Cross Ref No.	Ohms
264604CH	3386X-500	50	264698CF	4 3386X-253	25k
264612CH	3386X-101	100	264701CF	4 3386X-503	50k
264621CH	3386X-201	200	264719CF	d 3386X-104	100k
264639CH	3386X-501	500	264727CF	d 3386X-204	200k
264647CH	3386X-102	1k	264735CF	d 3386X-254	250k
264655CH	3386X-202	2k	264743CF	d 3386X-504	500k
264663CH	3386X-502	5k	264751CF	d 3386X-105	1M
264671CH	3386X-103	10k	264760CF	d 3386X-205	2M
264680CH	3386X-203	20k	-		

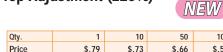


# 1/2-Watt, 3/8" Round, Single-Turn **Cermet Potentiometers Top Adjustment (±20%)**

XCLUSIVE

#### 3352T Series Value Equivalents

- Very low profile
- · Thumb and screwdriver adjustment
- Temperature range:
- (250V max.)
- Absolute minimum resistance: 2Ω max.
- $1\Omega$  max. whichever is greater Adjustment angle: 205° norminal
- -55°C to +125°C Power rating: 0.5W@85°C Contact resistance variation: 1% or



Part No.	Cross Ref No.	Ohms	Part No.	Cross Ref No.	Ohms
350271CH	3352T-1-101	100	350326CH	3352T-1-501	5K
350289CH	3352T-1-201	200	350334CH	3352T-1-103	10K
50297CH	3352T-1-501	500	350342CH	3352T-1-203	20K
50300CH	3352T-1-102	1K	350369CH	3352T-1-503	50K
350318CH	3352T-1-201	2K	350377CH	3352T-1-104	100K

# **Commercial Customers**

Open an account with us to consolidate your monthly billing and save time.

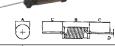
#### Axial Leaded RF Chokes

#### 4600 Series

· Inductive tolerance: 10%

• Operating temperature: -55°C to +125°C

 Size: A = 6.8mm max.; B = 19.0mm max.  $C = 25.0 \pm 2.0 \text{mm}$ ;  $D = 0.65 \pm 0.5 \text{mm}$ 



**Quantity SAVE** 

		Mfr. Cross	L	Q	Res. Freq	DCR	Max. DC		Pricing	
	Part No.	Ref. No.	(µH)	(min.)	Min. (MHz)	Max. (µ)	Current (mA)	1	10	100
	208063CH	4602	1.0	60	190	.050	2000	\$.69	\$.62	\$.55
	208071CH	4604	1.5	58	149	.093	1800	.69	.62	.55
	208080CH	4606	2.4	56	120	.190	1500	.69	.62	.55
	208098CH	4608	3.9	60	93	.450	1000	.69	.62	.55
	208101CH	4609	5.5	57	80	.670	850	.69	.62	.55
	208119CH	4610	6.2	57	76	.830	700	.69	.62	.55
	208127CH	4611	8.2	57	65	1.2	600	.69	.62	.55
	208135CH	4612	10	36	61	1.5	500	.69	.62	.55
ı										

# **Epoxy Conformal Coated Chokes**

- Operating temperature:
- -25°C to +85°C
- Tolerance: 5%
- Size: A = 3.2mm max. B = 7.0mm max.
- (except P/N 208143CH: 0.50±.05mm)

 $D = 63 \pm 3$ mm



	L	Q	Test. Freq	Res. Freq	DCR	Max. DC		Pricing	
Part No.	(µH)	(min.)	(MHz)	Min. (MHz)	Max. (μ)	Curr. (mA)	1	10	100
208143CH	10	60	7.96	28.7	1.56	670	\$.49	\$.45	\$.39
208151CH	27	50	2.52	10.2	2.39	410	.49	.44	.33
208160CH	33	50	2.52	8.4	2.71	380	.49	.45	.39
208178CH	47	50	2.52	6.9	3.3	330	.49	.45	.39
208186CH	82	45	2.52	5.4	4.62	240	.49	.44	.40
208194CH	100	45	2.52	5.0	4.98	240	.49	.45	.39
208207CH	220	45	0.796	3.3	9.23	180	.49	.45	.39
208215CH	330	45	0.796	2.7	13.2	140	.49	.44	.40
208223CH	470	45	0.796	2.2	21.4	120	.49	.45	.39
208231CH	820	45	0.796	1.7	28.4	90	.49	.44	.33
208240CH	1000	45	0.796	1.5	31.3	80	.49	.45	.39

For more NTE Varistors see page 53.



# **Thermistors**

#### **NTC Thermistors**

- · Typical applications: temperature measurement/control/compensation; power supply fan control; PCB temperature monitoring
- Operating temperature range: -30°C ~ +130°C
- Maximum allowable power (@ 250°C): 0.55W
- Thermal dissipation factor: 6.5mW/°Ć (@ 250°C)
- Resistance value allowable difference: 10%

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V	uui	ıtıty	וחכ	45

	Mfr. Cross	Resistance	B Constant	Temp. Coef.		Pric	ing	
Part No.	Ref. No.	(Ω @ 25°C)	(25/50°C >10%)	@ 25°C (%/°C)	1	10	100	500
207520CH	NTC-101	100	3100	-3.5	\$.59	\$.49	\$.39	\$.32
207511CH	NTC-201	200	3100	-3.5	.59	.49	.40	.30
207503CH	NTC-301	300	3100	-3.5	.59	.49	.39	.32
207491CH	NTC-501	500	3100	-3.5	.59	.49	.39	.32
207482CH	NTC-102	1k	3800	-4.3	.59	.49	.39	.32
207474CH	NTC-202	2k	3800	-4.3	.59	.49	.39	.32
207466CH	NTC-302	3k	3900	-4.4	.59	.50	.40	.30
207458CH	NTC-402	4k	3900	-4.4	.59	.49	.39	.32
207440CH	NTC-502	5k	3900	-4.4	.59	.49	.39	.32
207036CH	NTC-103	10k	4100	-4.6	.59	.49	.39	.32
207028CH	NTC-153	15k	4100	-4.6	.59	.53	.48	.38
207010CH	NTC-203	20k	4200	-4.7	.59	.49	.39	.32
207001CH	NTC-503	50k	4200	-4.7	.59	.49	.39	.32
206990CH	NTC-104	100k	4400	-4.9	.59	.49	.39	.32
206981CH	NTC-204	200k	4500	-5.1	.59	.50	.40	.30

# **High Current Toroid Inductors**

#### 5700 Series

Low radiation • Low core loss • High current capacity

 Size: A = 22.22mm max.; B = 11.09mm max.  $C = 15.0 \pm 1.0 \text{mm}$ ;  $D = 1.2 \pm 0.5 \text{mm}$ 

See page 178 for EMI suppression cores

See technical datasheets on www.Jameco.com for complete specifications

	Mfr. Cross		IDC max.	L min.	Pricing				
Part No.	Ref. No.	L (µH)	(A)	@ IDC	1	10	25	50	100
208258CH	5701	10	11.0	5	\$3.99	\$3.05	\$2.74	\$2.26	\$2.06
208266CH	5702	25	5.5	12	3.99	3.05	2.74	2.26	2.06
208311CH	5711	50	9.5	25	4.95	4.46	3.79	3.03	2.27
208303CH	5707	75	5.0	40	4.35	3.75	3.37	2.78	2.53
208274CH	5703	125	2.75	70	3.99	3.05	2.74	2.26	2.06
208320CH	5712	150	4.75	85	4.35	3.75	3.37	2.78	2.53
208282CH	5704	275	2.0	150	3.99	3.05	2.74	2.26	2.06
208291CH	5705	450	1.5	250	4.35	3.28	2.95	2.44	2.21

# **Varistors**

### LA Series Varistors (Radial Lead)

- AC power line applications Power supplies
- UL recognized as "transient voltage surge suppressors"
- · High energy absorption A7

UL recognized as "across-the-line components"

		Max.	Ratings	(+85°C)	Character	istics at 25°C		-46			
ΙΔΟ	Series	Size	Conti	nuous	Transient	Max Clamping Volt.					
LAS	101103		RMS	DC	Energy	@ I <sub>PK</sub> \	/alue Curr.				
		Disc.	Volt.	Volt.	(10/1000µs)	(8/20µs)		34446CH		34462CH	
	Mfr. Cross		V <sub>m(ac)</sub>	V <sub>m(dc)</sub>	W <sub>tm</sub>	V	I <sub>PK</sub> =2.0A		Pricing		
Part No.	Ref. No.	(mm)	Volts	Volts	Joules	Volts	Amps	1	10	100	500
34446CH	V130LA10A	14	130	175	38	340	50	\$.29	\$.25	\$.22	\$.20
34471CH	V250LA20A	14	250	330	72	650 50		.39	.35	.32	.30
34462CH	V130LA20A	20	130	175	70	340 100		.59	.56	.54	.52

# 30-Day Money Back Guarantee

If you're not completely satisfied with your purchase, simply return the product within 30 days for a refund or exchange. Details on page 258.

# Coupling Transformers **Modem Coupling Transformers**

• Insulation resistance:  $100M\Omega$ 

· Core type: EI-14

· Vacuum wax impregnated Hipot tested: 1000VAC

- ±20% impedance matching
- ±20% DC resistance matching







125356CH

Part	Mtr. Cross	Impe	dance (Ω)	Resis	tance (Ω)		Pricing		
Number	Ref. No.	Primary	Secondary	Primary	Secondary	1	10	100	
125356CH	XFR6006A14	600CT	600CT	65	55	\$1.29	\$1.18	\$1.08	
205962CH	60-282-0	1.2KCT	8	45	1.5	1.69	1.55	1.35	

# **Modem Coupling Transformers**







· Dielectric strength: 1250VAC Inertion Loss: 141621CH: 1.25dB@1kHz; 117760: 2.50dB@1kHz

Part	Mfr. Cross	Impe	dance ( $\Omega$ )	Resis	tance (Ω)	Pricing			
Number	Ref. No.	Primary	Secondary	Primary	Secondary	1	10	100	
141621CH	671-8255	600	600	46.5	67.6	\$1.95	\$1.66	\$1.25	
117760CH	671-8014	600	600	108	120	1.99	1.69	1.27	
	00011	550	500	.50	0	1.,,	,		



102824CH

**FL** (1)

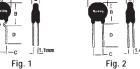


#### Resettable Fuses

Resettable fuses improve reliability and lower costs. Polymer Positive Temperature Coefficient (PPTC) fuses have provided designers in numerous industries a new tool in their battle to improve product quality and performance. As PPTC fuses are resettable, warranty costs and service calls are largely avoided.

#### RA Series

- Rated voltage: (V<sub>MAX</sub>): 60V Max. current: (I<sub>MAX</sub>): 40A
- Lead length (D): 7.6mm min.
- · Thickness (E): 3.1mm min.





### RB Series

- Rated voltage: (V<sub>MAX</sub>): 30V
- Max. current (I<sub>MAX</sub>): 40A
   Lead length (D): 7.6mm min.
- · Thickness (E): 3.0mm min.





	Mfr. Cross	Hold Curr.	Trip Curr.			Size (mr	n)		Pri	cing	
Part No.	Ref. No.	(I <sub>H</sub> , A)	(I <sub>T</sub> , A)	Fig.	Α	В	С	1	10	100	500
199814CH	RA010-60	0.10	0.20	1	7.4	12.7	5.1	\$.45	\$.41	\$.39	\$.31
199822CH	RA017-60	0.17	0.34	1	7.4	12.7	5.1	.45	.41	.39	.31
199831CH	RA020-60	0.20	0.40	1	7.4	12.2	5.1	.45	.41	.39	.31
199849CH	RA025-60	0.25	0.50	1	7.4	12.7	5.1	.45	.41	.39	.31
199857CH	RA030-60	0.30	0.60	1	7.4	13.0	5.1	.45	.41	.39	.31
199865CH	RA040-60	0.40	0.80	1	7.6	13.5	5.1	.49	.44	.41	.32
199873CH	RA050-60	0.50	1.00	1	7.9	13.7	5.1	.49	.46	.43	.32
199881CH	RA065-60	0.65	1.30	1	9.7	14.5	5.1	.50	.47	.43	.34
199890CH	RA075-60	0.75	1.50	1	10.4	15.2	5.1	.50	.47	.43	.34
199902CH	RA090-60	0.90	1.80	1	11.7	15.8	5.1	.52	.49	.45	.30
199911CH	RA110-60	1.10	2.20	2	13.0	18.0	5.1	.57	.55	.52	.40
199929CH	RA135-60	1.35	2.70	2	14.5	19.6	5.1	.58	.56	.53	.41
199937CH	RA160-60	1.60	3.20	2	16.3	21.3	5.1	.60	.57	.54	.42
199945CH	RA185-60	1.85	3.70	2	17.8	22.9	5.1	.59	.55	.45	.39
199953CH	RA250-60	2.50	5.00	2	21.3	26.4	10.2	.70	.63	.57	.49
100061CH	DA200 40	2 00	6.00	2	240	20.0	10.2	7.1	47	40	E0.

	Mfr. Cross	Hold Curr.	Trip Curr.		5	Size (mr	n)		Pricing		
Part No.	Ref. No.	(I <sub>H</sub> , A)	(I <sub>T</sub> , A)	Fig.	Α	В	С	1	10	100	500
199988CH	RB090-30	0.90	1.80	3	7.4	12.2	5.1	\$.48	\$.43	\$.35	\$.26
199996CH	RB110-30	1.10	2.20	3	7.4	14.2	5.1	.48	.43	.39	.31
200002CH	RB135-30	1.35	2.70	3	8.9	13.5	5.1	.48	.46	.43	.34
200011CH	RB160-30	1.60	3.20	3	8.9	15.2	5.1	.45	.42	.39	.31
200029CH	RB185-30	1.85	3.70	3	10.2	15.7	5.1	.48	.43	.39	.32
200037CH	RB250-30	2.50	5.00	3	11.4	18.3	5.1	.52	.48	.43	.34
200045CH	RB300-30	3.00	6.00	4	11.4	17.3	5.1	.57	.52	.48	.37
200053CH	RB400-30	4.00	8.00	4	14.0	20.1	5.1	.62	.57	.52	.40
200061CH	RB500-30	5.00	10.00	4	14.0	24.9	10.2	.67	.60	.54	.44
200070CH	RB600-30	6.00	12.00	4	16.5	24.9	10.2	.73	.67	.61	.48
200088CH	RB700-30	7.00	14.00	4	19.1	26.7	10.2	.80	.73	.67	.52
200096CH	RB800-30	8.00	16.00	4	21.6	29.2	10.2	.87	.78	.63	.47
200109CH	RB900-30	9.00	18.00	4	24.1	29.7	10.2	.89	.79	.69	.59

# 10.2

# Fuse Clips

7.50

Low contact resistance • Low profile

Prepackaged: order in increments of 10, 100 or 1000

3.75

· Withstands shock and vibration

**199970CH** RA375-60



.74

opaonago	0.40			riy. i	1 1y. z		19. J   F	'
Part No.	Description	Fig.	Size (H	" x W" x D"	x P")	10	100	1000
102859CH	5mm, front leads	1	.37 х .	25 x .21 x	.19	\$.12	\$.09	\$.05
119280CH	5mm, side leads	2	.33 x .	25 x .20 x	.21	09	.08	.07
102841CH	1/4", front leads (10A)	3	.32 x .	27 x .25 x	.23	09	.08	.07
220732CH	5mm, front leads (10A)	3	.33 x .	27 x .25 x	.29	15	.10	.07

28.5 33.5

#### Panel Mount Fuse Holders

11/4" x 1/4" Standard Thumbscrew Cap

Straight solder terminal; 10A @ 250VAC 18702CH . 1.5 Approvals Size Mounting Hole 100 1000 120993CH 1.95"L x .71"Dia. .58"Dia. (Double D-style) \$.79 \$.55 UL/CSA 2.05"L x .71"Dia. .58"Dia. x .52"Flat (D-style) 1.59 18702CH 1.15

#### 5mm x 20mm Miniature Thumbscrew Cap

Straight solder terminal: Size: 1.5"L x 0.6"Dia

Straight solder terminar, Size. 1.5 E x 0.0 Dia.									
Part No.	Approvals	Current	Mounting Hole	1	10	100	1000		
150463CH	_	6A @ 250VAC	.50"Dia. x .43"Flat	. \$.99	\$.86	\$.75	\$.57		
102824CH	UL/CSA	10A @ 250VAC	.50"Dia	99	.85	.72	.59		

### JAMECO ValuePro 11/4" x 1/4" Standard Fuses

#### Fast Acting Fuses (250V) AGC/3AG Fuses



10 100 1000

.44 .34 \$.40

.37

.37

.28

.28

.28

.40

.50

50

.34

.34

Various ..... \$.75 \$.59

Various ...... .69

Various ...... .69

Various .........55

Various ...... .55

Various ...... .55

•	Prepackaged:	order	in	increments	of	10,	100 or	1000
---	--------------	-------	----	------------	----	-----	--------	------

Part No.	Amps	Mfr. 10	100	1000
69403CH	250mA	Various \$.20	\$.18	\$.16
10410CH	500mA	Various	.18	.16
197510CH	630mA	Various	.18	.16
10372CH	1 amp	Various20	.12	.11
197528CH	1.6 amp	Various	.12	.11
10381CH	2 amp	Various20	.12	.11
197536CH	2.5 amp	Various21	.12	.09
69438CH	3 amp	Various	.12	.11
197544CH	4 amp	Various	.20	.18
10401CH	5 amp	Various	.20	.18
197552CH	6.3 amp	Various	.20	.18
69462CH	10 amp	Various25	.22	.20
186301CH	16 amp	Various25	.22	.20

# JAMECO ValuePro

# 5mm x 20mm Miniature Fuses

#### Fast Acting Fuses (250V) GMA Fuses

· Recommended for new designs · Prepackaged: order in increments

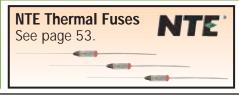
.53 .40

of 10, 100, 500 or 1000

Part No.	Amps	Mfr.	10	100	500	1000
103886CH	250mA	Various .	\$.20	\$.15	\$.11	\$.10
102040CH	500mA	Various .	20	.15	.11	.10
103907CH	1 amp	Various .	20	.15	.11	.10
103915CH	2 amp	Various .	20	.15	.11	.10
103923CH	3 amp	Various .	20	.15	.11	.10
103931CH	5 amp	Various .	20	.15	.11	.10

#### Slow Blow Fuses (250V) GMA Fuses

· Prepackaged: order in increments of 10, 100 or 1000 Part No. 1000 Amps 197501CH 500mA \$.26 \$.23 197464CH 1 amp Various .............29 .26 .23 .29 197472CH 2 amp .32 .32 .29 197481CH 3.15 amp 197499CH 5 amp .29



# JAMECO ValuePro

#### In-Line Fuse Holders

· Built-in spring ensures good fuse connection



- Vinyl covered wire
- with stranded copper center
- Wire color: red; except for P/N 108783CH orange

#### 11/4" x 1/4" Standard

		wile	bouy	bouy			
Part No.	AWG	Lgths	Size(L)	Color	1	10	100
109321CH	22	3.5/3"	2.4"	Black	\$.65	\$.58	\$.52
102867CH	20	3/3"	2.2"	White	65	.58	.48
151917CH	18	6/6"	2.4"	White	99	.85	.65
108783CH	16	21/26"	2.2"	Black	99	.87	.68
108791CH	14	19/25"	2.5"	Black	1.59	1.45	1.05

#### 5mm x 20mm Miniature

			wire	ьошу			
1	Part No.	AWG	Color	Size (L)	1	10	100
	109330CH	20	Red	1.8"	. \$.69	\$.56	\$.45

# JAMECO Value Pro 5mm x 20mm Miniature Low Profile Fuse Holder

- · Accepts 5 x 20mm fuses
- 10A @ 250VAC
- Size: 1.4"L x 0.6"Dia
- D-style mounting hole: 1 ea. 0.5"Dia x .46" flat



102832CH Fuse holder UL/CSA

Slow Blow Fuses

Part No.

25654CH

25689CH

25638CH

25646CH

69534CH

25671CH

69569CH

(250V) MDL/3AG Fuses

Amps

500mA

1 amp

2 amp

3 amp

5 amp

10 amp

#### Awesome Prices Consistent Quality Professional Grade [AMECO **Value**Pro √ Backed by Jameco

Color Code Legend New Sale Lower\$ QtySave

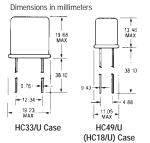
# **Crystals**

- Frequency calibration tolerance: ± 50ppm @ 25°C
- Operating temperature: -10°C to +60°C
   Drive level: 4.0 mW maximum
- Frequency stability tolerance: ±50 ppm from -10°C to +60°C
- Shunt capacitance: 7pF maximum
  DN's demotes extended temp. (-40°C to 85°C)

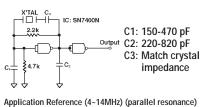
#### HC33/U Case

	Mfr. Cross	Frequency			Pri	cing	
Part No.	Ref. No.	(MHz)	Impedance	1	10	100	1000
14349CH	CY1	1.0	13pF	\$4.95	\$4.49	\$3.95	\$3.49

								J
JAMECO Valu	<b>e</b> Pro	HC49/U (I	HC18/U) (	Case				
324224CH	ESC-18-13-1	1.8432	13pF	\$.95	\$.86	\$.82	\$.64	Г
324283CH	ESC-20-S-1	2.0	Series	.94	.85	.82	.63	P
324275CH	ESC-20-20-1	2.0	20pF	.94	.85	.82	.63	3
324312CH	ESC-25-S-1	2.5	Series	.78	.71	.68	.53	3
324321CH	ESC-30-S-1	3.0	Series	.78	.71	.69	.53	3
324996CH	ESC-35-S-4	3.579545	Series	.36	.325	.31	.24	3
324347CH	ECS-36-18-1	3.6864	18pF	.31	.285	.275	.21	3
324988CH	ECS-36-18-4	3.6864	18pF	.36	.325	.31	.24	3
324970CH	ECS-36-20-4DN	3.6864	20pF	.62	.57	.50	.36	3
324363CH	ECS-40-S-1	4.0	Series	.31	.285	.275	.21	3
324945CH	ECS-40-S-4	4.0	Series	.36	.325	.31	.24	3
324961CH	ECS-40-20-4	4.0	20pF	.36	.325	.31	.24	3
324953CH	ECS-40-S-4DN	4.0	20pF	.62	.57	.50	.36	3
324355CH	ECS-40.3-20-1	4.032	20pF	.31	.285	.275	.21	3
324937CH	ECS-41-20-4	4.096	20pF	.36	.325	.31	.24	3
324371CH	ECS-42-12-1	4.194	12pF	.31	.285	.275	.21	3
324401CH	ECS-49-S-1	4.1952	Series	.31	.285	.275	.21	3
324380CH	ECS-49-20-1	4.9152	20pF	.31	.285	.275	.21	3
324427CH	ECS-50-S-1	5.0	Series	.31	.285	.275	.21	3
324911CH	ECS-50-S-4	5.0	Series	.36	.325	.31	.24	3
324419CH	ECS-50-20-1	5.0	20pF	.31	.285	.275	.21	3
324929CH	ECS-50-20-4	5.0	20pF	.36	.325	.31	.24	3
324435CH	ECS-51-20-1	5.0688	20pF	.31	.285	.275	.21	3
324902CH	ECS-51-20-4	5.0688	20pF	.36	.32	.31	.24	3
324443CH	ECS-52-32-1	5.185	32pF	.31	.285	.275	.21	3
324890CH	ECS-52-32-4	5.185	32pF	.36	.32	.31	.24	3
324460CH	ESC-60-S-1	6.0	Series	.31	.285	.275	.21	3
324865CH	ECS-60-S-4	6.0	Series	.36	.32	.31	.24	3
324451CH	ECS-60-32-1	6.0	32pF	.31	.285	.275	.21	3
324881CH	ECS-60-32-4	6.0	32pF	.36	.32	.31	.24	3
324873CH	ECS-60-32-4DN	6.0	32pF	.62	.57	.50	.36	3
324857CH	ECS-61-32-4	6.144	32pF	.36	.32	.31	.24	3
324849CH	ECS-65-20-4	6.5	20pF	.36	.32	.31	.24	3
324478CH	ECS-65-12-1	6.5536	12pF	.31	.285	.275	.21	3
324831CH	ECS-73-20-4	7.3728	20pF	.36	.32	.31	.24	3
324822CH	ECS-73-20-4DN		20pF	.62	.57	.50	.36	3
324486CH	ECS-76.8-20-1	7.68	20pF	.31	.285	.275	.21	
324814CH	ECS-76.8-20-4	7.68	20pF	.36	.32	.31	.24	3
324494CH	ECS-80-18-1	8.0	18pF	.45	.42	.27	.21	3
324806CH	ECS-80-18-4	8.0	18pF	.36	.32	.31	.24	
324793CH	ECS-80-18-4DN		18pF	.57	.57	.50	.36	3
324507CH	ECS-80-20-1	8.0	20pF	.31	.285	.274	.21	3
324785CH	ECS-80-20-4	8.0	20pF	.36	.32	.31	.24	
324515CH	ECS-80-32-1	8.0	32pF	.31	.285	.274	.21	3
324777CH	ECS-80-32-4	8.0	32pF	.36	.32	.31	.24	3
324769CH	ECS-90-S-4	9.0	Series	.36	.32	.31	.24	3
324531CH	ECS-92.1-S-1	9.216	Series	.31	.285	.274	.21	3



NEW



		3/U) Case					
	Mfr. Cross	Frequency	į		Prici		
Part No.	Ref. No.	(MHz)	Impedance	1	10	100	1000
324523CH	ECS-92.1-20-1	9.216	20pF	\$.31	\$.285	\$.274	\$.21
324751CH	ECS-92.1-20-4	9.216	20pF	.45	.41	.31	.24
324734CH	ECS-98.3-20-4	9.8304	20pF	.36	.32	.31	.24
324540CH	ECS-98.3-20-1	9.9304	20pF	.31	.285	.274	.21
324128CH	ECS-110.5-S-1	11.0592	Series	.31	.284	.274	.21
325227CH	ECS-110.5-20-4	11.0592	20pF	.36	.325	.31	.24
324110CH	ECS-110.5-32-1	11.0592	32pF	.31	.284	.274	.21
325219CH	ECS-110.5-32-4	11.0592	32pF	.36	.325	.31	.24
324136CH	ECS-115.2-S-1	11.52	Series	.31	.284	.274	.21
324144CH	ECS-119.8-S-1	11.98135	Series	.31	.284	.274	.21
325201CH	ECS-120-20-4	12.0	20pf	.36	.325	.31	.26
325198CH	ECS-120-20-4DN	12.0	20pF	.62	.57	.50	.36
325180CH	ECS-120-32-4	12.0	32pF	.36	.325	.31	.24
324152CH	ECS-122.8-20-1	12.288	20pF	.31	.284	.274	.21
325171CH	ECS-122.8-20-4	12.288	20pF	.36	.325	.31	.24
324161CH	ECS-135-S-1	13.5168	Series	.31	.284	.274	.21
324179CH	ECS-143-S-1	14.31818	Series	.31	.28	.255	.21
324187CH	ECS-147.4-20-1	14.7456	20pF	.31	.284	.274	.21
324195CH	ECS-147.4-S-1	14.7456	Series	.31	.284	.274	.21
325155CH	ECS-147.4S-4	14.7456	Series	.36	.325	.315	.24
325163CH	ECS-147.4-20-4	14.7456	20pF	.36	.325	.315	.24
325147CH	ECS-153-20-4	15.36	20pF	.36	.325	.315	.24
324208CH	ECS-160-20-1	16.0	20pF	.31	.284	.274	.21
325139CH	ECS-160-20-4	16.0	20pF	.36	.325	.315	.24
325121CH	ECS-160-20-4DN	16.0	20pF	.62	.57	.50	.36
324216CH	ECS-180-20-1	18.0	20pF	.31	.284	.274	.21
324232CH	ECS-184-20-1	18.432	20pF	.31	.284	.274	.21
325112CH	ECS-184-20-4	18.432	20pF	.36	.325	.315	.24
325104CH	ECS-184-20-4DN	18.432	20pF	.62	.57	.50	.36
324241CH	ECS-196.6-20-1	19.6608	20pF	.31	.284	.274	.21
325083CH	ECS-196.6-20-4	19.6608	20pF	.36	.325	.315	.24
325091CH	ECS-196.6-20-4DN	19.6608	20pF	.62	.57	.50	.36
324259CH	ECS-196.6-S-1	19.6608	Series	.31	.285	.275	.21
325075CH	ECS-196.6-S-4	19.6608	Series	.36	.325	.315	.24
324267CH	ECS-200-20-1	20.0	20pF	.31	.285	.275	.21
325067CH	ECS-200-20-4	20.0	20pF	.36	.325	.315	.24
325059CH	ECS-200-20-4DN	20.0	20pF	.62	.57	.50	.36
325041CH	ECS-204.8-20-4	20.48	20pF	.36	.325	.315	.26
324304CH	ECS-221-S-1	22.1184	Series	.31	.285	.275	.21
325032CH	ECS-240-16-4	24.0	16pF	.36	.325	.315	.24
325024CH	ECS-240-20-4DN	24.0	20pF	.62	.57	.50	.36
325016CH	ECS-245.7-20-4		20pF	.36	.325	.315	.26
325008CH	ECS-250-18-4-F		18pF	.36	.325	.315	.22
324339CH	ECS-352.5-18-1	35.2512	18pF	.31	.285	.275	.21
324398CH	ECS-498.6-20-1	49.86	20pF	.31	.285	.275	.21

	Other Manufacturers — Limited Great Deals														
102613CH	CY1.843	1.8432	18pF	\$.99	\$.72	\$.51	\$.39	14681CH	CY6	6.0	18pF	\$.79	\$.71	\$.64	\$.50
102621CH	CY2.0	2.0	Series	.81	.73	.66	.55	14699CH	CY6.14	6.144	30pF	.37	.34	.30	.25
101274CH	CY2.457	2.4576	32pF	.99	.89	.75	.69	14710CH	CY7.37	7.3728	30pF	.89	.80	.65	.488
14525CH	CY3.27	3.2768	18pF	.99	.89	.79	.69	14728CH	CY8	8.0	Series	.89	.79	.69	.54
			: '					14381CH	CY10	10.0	Series	.79	.69	.59	.49
14533CH	CY3.57	3.579545	18pF	.59	.54	.42	.39	120061CH	CY11.05	11.0592	! Series	.89	.79	.69	.59
14568CH	CY3.68	3.6864	18pF	.89	.79	.69	.59	14402CH	CY12	12.0	Series	.89	.75	.55	.39
14592CH	CY4	4.0	20pF	.59	.54	.41	.39	14453CH	CY16	16.0	Series	.62	.56	.50	.44
14621CH	CY4.91	4.9152	Series	.89	.79	.69	.59	14517CH	CY20	20.0	Series	.79	.69	.59	.39

.24



324742CH

ECS-92.1-S-4

9.216

Series

.32

.36

.31

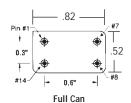


#### J<u>AMECO</u> ValuePro

# **TTL Oscillators**

#### Specifications:

- Input voltage: +5VDC ±0.5VDC
   OSC series oscillators fit into a 14-pin DIP socket P/N 133006CH, pg 82
- Frequency stability ±100ppm
- Operating temperature: 0°C to 70°C
- Output load TTL: 10 TTL max.



Pin #	Function				
1	N/C				
7	GND				
8	Output				
14	+5VDC				
Full Can					



325497CH



Pin # Function

1 N/C

4 GND

5 Output

8 +5VDC

Half Can Half Can

JAMECO ValuePro

# NEW

#### TTL Oscillators (Full Can)

	I				1			
	Mfr. Cross	Frequency	Max. Input	Rise Fall		Pric	ing	
Part No.			Current	Time	1	10	100	1000
325411CH	ECS-100A-035	3.579545	15mA	10ns	\$1.19	\$1.09	\$1.03	\$.79
325315CH	ECS-100A-036	3.6864	15mA	10ns	1.19	1.09	1.03	.77
354888CH	ECS-100A-040	4.0	15mA	10ns	1.35	1.22	1.17	.85
325374CH	ECS-100A-049	4.9152	15mA	10ns	1.19	1.09	1.03	.79
325323CH	ECS-100A-050	5.0	15mA	10ns	1.19	1.09	1.03	.79
325251CH	ECS-100A-051	5.0688	15mA	10ns	1.19	1.09	1.03	.79
325260CH	ECS-100A-060	6.0	15mA	10ns	1.19	1.09	1.03	.79
325278CH	ECS-100A-061	6.144	15mA	10ns	1.19	1.09	1.03	.79
325358CH	ECS-100A-073	7.3728	15mA	10ns	1.19	1.09	1.03	.77
354896CH	ECS-100A-080	8.0	30mA	10ns	1.35	1.22	1.17	.85
325331CH	ECS-100A-092.1	9.216	30mA	10ns	1.19	1.09	1.03	.79
325366CH	ECS-100A-098.3	9.8304	30mA	10ns	1.19	1.09	1.03	.79
354909CH	ECS-100A-100	10.0	30mA	10ns	1.19	1.15	1.03	.77
354870CH	ECS-100A-110.5	11.0592	30mA	10ns	1.35	1.22	1.17	.85
354837CH	ECS-100A-143	14.31818	30mA	_	1.19	1.09	1.03	.79
354845CH	ECS-100A-160	16.0	30ma	10ns	1.35	1.22	1.17	.85
325286CH	ECS-100A-162.5	16.257	30mA	10ns	1.19	1.09	1.03	.79
325340CH	ECS-100A-180	18.0	30mA	10ns	1.19	1.09	1.03	.79
325382CH	ECS-100A-184	18.432	30mA	10ns	1.19	1.09	1.03	.79
325446CH	ECS-100A-196.6	19.6608	30mA	10ns	1.19	1.09	1.03	.79
354917CH	ECS-100A-200	20.0	30mA	10ns	1.35	1.22	1.17	.85
325391CH	ECS-100A-240	24.0	70mA	10ns	1.19	1.09	1.03	.77
325454CH	ECS-100A-250	25.0	70mA	5ns	1.19	1.09	1.03	.77
325403CH	ECS-100A-283.2	28.322	70mA	5ns	1.19	1.09	1.03	.79
325438CH	ECS-100A-300	30.0	70mA	5ns	1.19	1.09	1.03	.79
325294CH	ECS-100A-350	35.0	70mA	5ns	1.19	1.09	1.03	.79
354861CH	ECS-100A-400	40.0	70mA	5ns	1.35	1.22	1.17	.85
354853CH	ECS-100A-500	50.0	70mA	5ns	1.35	1.22	1.17	.85

	Other Man	ufacture	rs —	Limi	ted Gre	at Dea	als	
27861CH	OSC1	1.0	7mA	15ns	\$2.75	\$2.45	\$1.59	\$1.39
325307CH	ECS-100A-012.2	1.2288	15mA	10ns	1.25	1.13	.89	.83
27879CH	OSC1.84	1.8432	7mA	15ns	2.39	2.15	1.95	1.59
27924CH	OSC2	2.0	7mA	15ns	1.99	1.79	1.59	1.39
27967CH	OSC4	4.0	7mA	10ns	1.99	1.79	1.59	1.39
27991CH	OSC8	8.0	15mA	15ns	1.99	1.79	1.59	1.39
27887CH	OSC10	10.0	15mA	10ns	1.99	1.79	1.59	1.39
144207CH	OSC11.05	11.059	50mA	10ns	1.35	1.19	.95	.89
27895CH	OSC12	12.0	15mA	10ns	1.99	1.79	1.59	1.29
108652CH	OSC14.31	14.31818	15mA	10ns	1.99	1.79	1.45	1.09
27908CH	OSC16	16.0	15mA	10ns	1.59	1.45	1.15	.85
27932CH	OSC20	20.0	17mA	10ns	1.79	1.59	1.45	1.29
27941CH	OSC32	32.0	18mA	7ns	1.59	1.45	1.15	.85
76822CH	OSC33	33.0	18mA	6ns	1.99	1.79	1.59	1.35
153226CH	OSC40	40.0	18mA	6ns	1.25	1.13	1.02	.83
76831CH	OSC50	50.0	25mA	6ns	1.99	1.79	1.43	1.07
325420CH	ECS-100A-666	66.666	70mA	5ns	1.19	1.08	.92	.87
76857CH	OSC100	100.0	25mA	3ns	2.49	2.25	1.95	1.75



#### TTL Oscillators (Half Can)

	D		7/7/7
- /	10. 11	7	W

	Mfr. Cross	Frequency	Max. Input	Rise Fall		Pricing		
Part No.	Ref. No.		Current	Time	1	10	100	1000
325500CH	ECS-2100A-035	3.579545	15mA	10ns	\$1.35	\$1.22	\$1.17	\$.90
325518CH	ECS-2100A-0.6	3.6864	15mA	10ns	1.35	1.22	1.17	.90
325526CH	ECS-2100A-040	4.0	15mA	10ns	1.32	1.21	1.17	.90
325534CH	ECS-2100A-051	5.0688	15mA	10ns	1.32	1.21	1.17	.90
325542CH	ECS-2100A-060	6.0	15mA	10ns	1.32	1.21	1.17	.90
325551CH	ECS-2100A-061	6.144	15mA	10ns	1.32	1.21	1.17	.90
325569CH	ECS-2100A-080	8.0	30mA	10ns	1.32	1.21	1.17	.90
325577CH	ECS-2100A-092.1	9.216	30mA	10ns	1.32	1.21	1.17	.90
325585CH	ECS-2100A-098.3	9.8304	30mA	10ns	1.35	1.22	1.17	.90
354829CH	ECS-2100A-100	10.0	25mA	5ns	1.35	1.22	1.17	.90
325593CH	ECS-2100A-110.5	11.0592	30mA	10ns	1.35	1.22	1.17	.90
325606CH	ECS-2100A-120	12.0	30mA	10ns	1.35	1.22	1.17	.90
325614CH	ECS-2100A-143	14.31818	30mA	10ns	1.35	1.22	1.17	.90
325622CH	ECS-2100A-160	16.0	30mA	10ns	1.35	1.22	1.17	.90
325631CH	ECS-2100A-162.5	16.257	30mA	10ns	1.35	1.22	1.17	.90
325649CH	ECS-2100A-184	18.432	30mA	10ns	1.35	1.22	1.17	.90
325657CH	ECS-2100A-196.6	19.6608	30mA	10ns	1.35	1.22	1.17	.90
325665CH	ECS-2100A-200	20.0	30mA	10ns	1.35	1.22	1.17	.90
325673CH	ECS-2100A-250	25.0	70mA	5ns	1.35	1.22	1.17	.90
325681CH	ECS-2100A-283.2	28.322	70mA	5ns	1.35	1.22	1.17	.90
325690CH	ECS-2100A-300	30.0	46mA	5ns	1.35	1.22	1.17	.90
325702CH	ECS-2100A-320	32.0	70mA	5ns	1.35	1.22	1.17	.90
325711CH	ECS-2100A-325.1	32.514	70mA	5ns	1.35	1.22	1.17	.90
325729CH	ECS-2100A-400	40.0	70mA	5ns	1.35	1.22	1.17	.90
325737CH	ECS-2100A-480	48.0	70mA	5ns	1.35	1.22	1.17	.90

	Other Manufacturers — Limited Great Deals												
325462CH	ECS-2100A-010	1.0	15mA	10ns	\$1.35	\$1.22	\$.96	\$.90					
325471CH	ECS-2100A-012.2	1.2288	15mA	10ns	1.35	1.22	.96	.90					
325489CH	ECS-2100A-018	1.8432	15mA	10ns	1.39	1.29	1.01	.94					
102779CH	OSC10H	10.0	45mA	6ns	1.45	1.05	.96	.79					
325497CH	EOS-2100A-020	2.0	25mA	5ns	1.35	11.22	.96	.90					
325745CH	ECS-2100A-640	64.0	70mA	5ns	1.35	1.22	1.10	1.01					

# **Lowest Price Guarantee**

Find a product at a lower print advertised price?
We'll beat that price by 10% right down to our cost!



We have tried to cover all the most popular frequencies and packages in the market place for you. If we have missed any, please let us know and we will do our best to add it to our next catalog. Email us 24/7 at NewProducts@Jameco.com.

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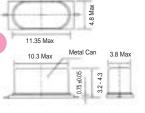
### SMD Version of HC49US

EXCLUSIVE

The CSM-7 is an exellent choice for SMD version of the HC-49US leaded crystal. The CSM-7 has a case height of 4.3mm maximum in a

resistance weld metal package.

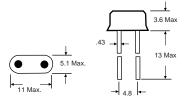
- Operating temperature range: -40°C to +85°C
- Frequency stability: ± 100ppm
- · Drive level: 0.5mw
- Aging (frist year @ +25°C): ± 5ppm



	Mfr. Cross	Frequency	P		Pric	ing	
Part No.	Ref. No.	(MHz)	Impedance	1	10	100	1000
325868CH	ECS-35-17-5PDN	3.579545	17pF	\$.83	\$.70	\$.55	\$.46
325876CH	ECS-36-20-5PDN	3.6864	20pF	.83	.70	.55	.46
325884CH	ECS-40-20-5PDN	4.0	20pF	.83	.70	.55	.46
325892CH	ECS-60-32-5PDN	6.0	32pF	.83	.70	.55	.43
325905CH	ECS-73-20-5PDN	7.3728	20pF	.83	.70	.55	.43
325913CH	ECS-80-18-5PDN	8.0	18pF	.83	.70	.55	.46
325921CH	ECS-120-20-5PDN	12.0	20pF	.83	.70	.56	.46
325930CH	ECS-143-20-5PDN	14.31818	20pF	.83	.70	.55	.46
325948CH	ECS-160-20-5PDN	16.0	20pF	.83	.70	.56	.46
325956CH	ECS-184-20-5PDN	18.432	20pF	.83	.70	.55	.46
325964CH	ECS-196-20-5PDN	19.6608	20pF	.83	.70	.55	.46
325972CH	ECS-200-20-5PDN	20.0	20pF	.83	.70	.55	.46
325981CH	ECS-240-20-5PDN	24.0	20pF	.83	.70	.55	.46

# **HC49/S Case (Low Profile Crystals)**

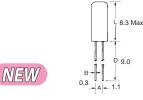
- · Frequency range: 3.5 to 70.0MHz
- Operating temperature: -10°C to +60°C
- · Drive level: 0.5mW (fundamental frequency)
- Aging: ±5ppm/year maximum
- Frequency stability tolerance: ±50ppm



	Mfr. Cross	Frequency	Frequency			Pric	ing	
Part No.	Ref. No.	(KHz)	Imped.	Resist.	1	10	100	1000
137816CH	CY3.57LP	3.579545	17pF	150Ω	\$.95	\$.86	\$.68	\$.51
137832CH	CY4LP	4.000	17pF	120Ω	.99	.89	.79	.69
137859CH	CY8LP	8.000	Series	60Ω	.75	.67	.59	.53
137875CH	CY11.05LP	11.0592	Series	50Ω	1.05	.81	.66	.52
137891CH	CY16LP	16.000	Series	40Ω	.39	.36	.29	.27

# **Turning Fork**

- · Operating temperature range: -10°C to +60°C
- Frequency tolerance: ±20ppm
- · Drive level: 1mw
- Aging for frist year: ± 3ppm (max. +25°C)



3.1 Max

	Mfr. Cross	Frequency			Pricing				
Part No.	Ref. No.	(MHz)	Impedance	1	10	100	1000		
14584CH	CY32.76	32.768kHz	10.5pF	\$.89	\$.79	\$.69	\$.59		
325243CH	ECS327-12.5-13	32.768kHz	12.5pF	.23	.215	.185	.135		

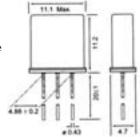
### 14-Pin Crystal Oscillator Socket

- · Can be PCB mounted without the modifications that would be needed with DIP-IC sockets
- · Low profile solder tail; machine tooled on 4 pins
- Good for prototyping and PCB mounting

Part No.	Description	1	10	100	1000
133006CH	Oscillator socket\$	.55	\$.46	\$.34	\$.31

### Monolithic Crystal Filters

Monolithic crystal filters have very high Q's and exellent temperature and aging characteristics. These filters offer narrow and intermediate bandwidths. The monolithic crystal filter is smaller and more cost effective than a discrete crystal filter. With the addition of coupling capacitors between two-pole sections, they can be cascaded to produce four, six and eight (or more) pole filter responses.



- · High stability for wide temperature ranges
- Sharp cut-off
- Operating temperature range: -20°C to +80°C
- Frequency accuracy: ±0.5% @ 25°C Temp. stability: ±0.3%
- Aging for 10 years: ± 0.3%
- · Withstanding voltage: 100VDC





	Mfr. Cross	Freq.	No. of	Riple	Terminating		Pricing	
Part No.	Ref. No.	(KHz)	Poles	Max.	Imped. (Ω/pF)	1	10	100
324101CH	ECS-10.7-7.5A	12.5kHz	2	0.5dB	1800/5.0	\$2.65	\$2.39	\$2.15
324081CH	ECS-10.7-15A	25.0kHz	2	0.5dB	3000/2.0	1.55	1.42	1.28
324099CH	ECS-10.7-15B	25.0kHz	4	1dB	3000/2.0	3.19	2.91	2.62

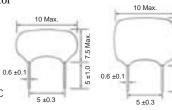
#### JAMECO ValuePro

#### Ceramic Resonators

Low cost

The ZTA series ceramic resonator offers wide frequency range and extended temperature range capabilities.

- · Low profile
- · Wide frequency range
- Extended temperature range · High stability
- Frequency accuracy: ±0.5% @ 25°C
- Operating temperature range: -20°C to +85°C
- Temperature stability: ±0.3%
- Drivė level: 0.5mw
- Aging for 10 years: ± 0.3%



ZTA-MG ZTA-MT/MX

# EXCLUSIVE



	Mfr. Cross	Freq.	No. of	Resonant Resistance	Withstanding Voltage		Pri	cing	
Part No.	Ref. No.	(MHz)	Pins	$\Omega$ (max.)	5 sec. (max.)	1	10	100	1000
324591CH	ZTA-3.58MG	3.58	2	30	100V	\$.28	\$.255	\$.25	\$.195
324603CH	ZTA-4.00MG	4.0	2	30	100V	.28	.255	.25	.195
324697CH	ZTT-4.00MG	4.0	3	30	100V	.33	.30	.26	.25
324611CH	ZTA-4.19MG	4.19	2	30	100V	.38	.32	.255	.195
324700CH	ZTT-4.19MG	4.19	3	30	100V	.42	.355	.285	.22
324620CH	ZTA-6.00MT	6.0	2	30	100V	.28	.26	.255	.195
324718CH	ZTT-6.00MT	6.0	3	30	100V	.31	.285	.275	.21
324638CH	ZTA-8.00MT	8.0	2	25	100V	.28	.26	.255	.195
324726CH	ZTT-8.0MT	8.0	3	25	100V	.31	.285	.275	.21
324558CH	ZTA-10.00MT	10.0	2	25	100V	.28	.255	.25	.195
324566CH	ZTA-12.00MT	12.0	2	25	100V	.28	.255	.25	.195
324654CH	ZTT-12.00MT	12.0	3	25	100V	.31	.285	.275	.21
324574CH	ZTA-16.00MX	16.0	2	55	100V	.28	.255	.25	.195
324662CH	ZTT-16.00MX	16.0	3	55	100V	.31	.285	.275	.21
324582CH	ZTA-20.00MX	20.0	2	55	100V	.28	.255	.25	.195
324671CH	ZTT-20.00MX	20.0	3	55	100V	.31	.285	.275	.21

	Other IV	lanuf	actu	ırers —	Limited	Grea	t Deal	ls	
324689CH	ZTT-3.58MG	3.58	3	30	100V	\$.33	\$.30	\$.26	\$.25
324646CH	ZTT-10.00MT	10.0	3	25	100V	.33	.30	.26	.25

# Free Technical Support

Our Knowledgeable Tech Support department is ready to answer your questions. Just call us!



### Kits Include the Most Popular Components and a Cabinet with Extra Drawers for Your Customized Expansion

Each Kit includes a 20-Drawer Component Cabinet (319599CH), 20 clear plastic drawers (319601CH), 20 clear dividers (319610CH), 30 adhesive labels for drawers to identify parts in kit, and all the Electronic Components listed in each kit.



- Cabinet size: 6.0"L x 15.0"W x 7.9"H
- · Cabinet: ABS-Black Drawer size: 5.5"L x 2.7"W x 1.5"H Weight: 4.6 to 6.4 lbs
- · Cabinet is wall-mountable or free standing

Each Refill Package includes all Electronic Components listed in each kit; each type is separately packaged.



0.2 ..... 12.95

11.49

81832CH (Resistor Kit)

# Radial Electrolytic Capacitor Kit

SAVE \$11 Includes 240 pcs (15 values) +20% Radial Electrolytic Canacitors

IIICIUUCS Z	includes 240 pcs. (15 values) 120% Radial Electrolytic Capacitors						
10 each	10 each	20 each	20 each	20 ea	ach		
100μF @ 50	OV 1000μF @ 16V	1μF @ 50V	3.3µF @ 50V	22µF	@ 50V		
220µF @ 25	5V 2200µF @ 25V	1μF @ 100V	4.7µF @ 50V	47µF	@ 50V		
470µF @ 25	5V 3300µF @ 25V	2.2µF @ 50V	10μF @ 50V	100µ	ıF @ 25V		
Part No.	Description		Wt. (lbs.)	1	10		
81867CH	240 pcs. Radial Capa	citor kit	5.3\$	29.95	\$26.95		
130331CH	Refill for 81867CH (2	240 pcs.)	0.5	17.95	16.49		

### Axial Electrolytic Capacitor Kit

**SAVE \$12** 

Includes 140 pcs. (10 values) ±20% Axial Electrolytic Capacitors

10 each	10 each	10 each	20 each	20 (	each
47μF @ 50V	220µF @ 50V	1000μF @ 25V	1μF @ 50V	10µ	ıF @ 50V
100μF @ 50	V 470μF @ 50V	2200µF @ 16V	4.7μF @ 50V	2.2	μF @ 50V
Part No.	Description		Wt. (lbs.)	1	10
81875CH	140 pcs. Axial Capac	itor kit	5.3 \$	37.95	\$34.15
130340CH	Refill for 81875CH (1	140 pcs.)	0.6	24.95	22.49

# Mylar Capacitor Kit

**SAVE \$11** 

103165CH

Includes 2	80 pcs. (10 value	s) 100V ±10% IV	lylar Capacitors		
10 each	10 each	10 each	10 each	100	each
.001µF	.022µF	.047µF	.47µF	.01	μF
.0047µF	.033µF	.22µF	1μF	.1µĺ	F
Part No.	Description		Wt. (lbs.)	1	10
81883CH	280 pcs. Mylar Ca	pacitor kit	5.1	. \$37.95	\$34.15
130358CH	Refill for 81883CH	I (280 pcs.)	0.3	19.95	17.95

### Dipped Tantalum Capacitor Kit

**SAVE \$31** 

includes 15	includes 150 pcs. (15 values) ±20% Dipped Tantalum Capacitors					
10 each	10 each	10 each	10 each	10 e	ach	
.1μF @ 35V	1μF @ 25V	3.3µF @ 35V	10μF @ 16V	22µF	@ 16V	
.22µF @ 35V	1μF @ 35V	4.7µF @ 35V	10μF @ 35V	33µF	@ 25V	
.47µF @ 35V	2.2μF @ 16V	6.8µF @ 35V	15µF @ 25V	47µF	@ 25V	
Part No.	Description		Wt. (lbs.)	1	10	
81841CH	150 pcs. Tantalum C	apacitor kit	4.8\$	79.95	\$71.95	
130260CH	Refill for 81841CH (	150 pcs.)	0.3	59.95	53.95	

### Ceramic Disc Capacitor Kit

**SAVE \$15** 

Includes 520 pcs. (10 values) 50V ±20% Ceramic Disc Capacitors

Includes 150 pcs (15 values) +20% Dinned Tantalum Canacitor

20 each	20 each	20 each	100 each	100	each
10pF	47pF	470pF	.022µF	.01	ıF
22pF	100pF	.001µF	.047µF	.1µl	-
Part No.	Description		Wt. (lbs.)	1	10
81859CH	520 pcs. Ceramic	Capacitor kit	5.0	\$35.95	\$32.35
130232CH	Refill for 81859CH	I (520 pcs.)	0.3	. 17.95	16.49

# Monolithic Ceramic Capacitor Kit

**SAVE \$11** 

Includes 280 pcs. (10 values) 50V ±20% Monolithic Ceramic Capacitors

10 each	10 each	10 each	10 each	100	each
22pF	.001µF	.047µF	.47µF	.01	μF
100pF	.0022µF	.22µF	1μF	.1µ	F
Part No.	Description		Wt. (lbs.)	1	10
171475CH	280 pcs. Monolith	ic Capacitor kit	5.0	\$29.95	\$26.95
171483CH	Refill for 171475C	H (280 pcs.)	0.3	17.95	15.95

### 1/8-Watt Carbon Film Resistor Kit

Includes 540 pcs. (30 values) 1/8-watt 5% Resistors

	•	•	•				
10 each	10 each	10 each	10 each	10 each	10 each	50 each	50 each
10Ω	$330\Omega$	$1.5$ k $\Omega$	$3.3$ k $\Omega$	15k $\Omega$	$47k\Omega$	100Ω	4.7kΩ
$47\Omega$	$390\Omega$	$2\Omega$	$5.1k\Omega$	$22k\Omega$	$470k\Omega$	$220\Omega$	$10k\Omega$
$150\Omega$	$470\Omega$	$2.2k\Omega$	$5.6k\Omega$	$27k\Omega$	$1M\Omega$	1kΩ	$100 \mathrm{k}\Omega$
$270\Omega$	$680\Omega$	$2.7k\Omega$	$6.8$ k $\Omega$	$33k\Omega$	$10 M\Omega$		
Part No.	Descri	otion		V	Vt. (lbs.)	1	10
108329Cl	H 540 pc	s. 1/8-watt F	Resistor kit		4.9	\$24.95	\$22.49
108302CF	H Refill f	or 108329CF	H (540 pcs.)		0.2	12.95	11.49

### 1/4-Watt Carbon Film Resistor Kit

Includes 540 pcs. (30 values) 1/4-watt 5% Resistors

10 each	10 each	10 each	10 each	10 each	10 each	50 each	50 each
$10\Omega$	$330\Omega$	$1.2k\Omega$	$2.7k\Omega$	$15k\Omega$	$47k\Omega$	$100\Omega$	$4.7$ k $\Omega$
$47\Omega$	$390\Omega$	$1.5$ k $\Omega$	$3.3$ k $\Omega$	$20k\Omega$	$470k\Omega$	$220\Omega$	$10k\Omega$
$150\Omega$	$470\Omega$	$2k\Omega$	$5.1k\Omega$	$22k\Omega$	$1M\Omega$	$1$ k $\Omega$	$100$ k $\Omega$
$270\Omega$	$\Omega$ 086	$2.2k\Omega$	$5.6k\Omega$	$33k\Omega$	$10 M\Omega$		
Part No.	Descri	otion		١	Nt. (lbs.)	1	10
81832CH	540 pc	s. 1/4-watt F	Resistor kit		4.9	\$27.95	\$24.95

#### 1/2-Watt Carbon Film Resistor Kit

Refill for 81832CH (540 pcs.)

Includes 540 pcs. (30 values) 1/2-watt 5% Resistors

10 each	10 each	10 each	10 each	10 each	10 each	50 each	50 each
$10\Omega$	$330\Omega$	$1.5 k\Omega$	$3.3$ k $\Omega$	15k $\Omega$	$47k\Omega$	$100\Omega$	$4.7k\Omega$
$47\Omega$	$390\Omega$	$2k\Omega$	$5.1k\Omega$	$22k\Omega$	$470k\Omega$	$220\Omega$	$10k\Omega$
$150\Omega$	$470\Omega$	$2.2k\Omega$	$5.6$ k $\Omega$	$27k\Omega$	$1M\Omega$	1kΩ	$100$ k $\Omega$
$270\Omega$	$680\Omega$	$2.7k\Omega$	$6.8$ k $\Omega$	$33k\Omega$	$10 M\Omega$		
Part No.	Descrip	otion			Wt. (lbs.)	1	10
107879CF	H 540 pc	s. 1/2-watt F	Resistor kit		5.1	\$29.95	\$26.95
107852CF	H Refill for	or 107879CH	f (540 pcs.)		0.4	14.95	13.49

#### 1/2-Watt Single Turn Cermet Pot Kit

See page 75 (63P Series) for photos and specs. Includes 100 pcs. (10 values) 1/2-watt Linear Taper Potentiometer

10 each 10 each 10 each 10 each 10 each 63P500Ω 63P5kΩ  $63P500k\Omega$ 63P1kΩ  $63P50k\Omega$ 63P2kΩ 63P20kΩ  $63P1M\Omega$  $63P10k\Omega$  $63P100k\Omega$ Part No. Description Wt. (lbs.) 10 4.9 .....<u>....</u> 100 pcs. single turn Pot kit \$65.95 \$59.35

#### 3/4-Watt 15 Turn Cermet Pot Kit

See page 75 (43P Series) for photos and specs.

**SAVE \$32** 

**SAVE** \$28

Includes 100 pcs. (10 values) 3/4-watt Linear Taper Potentiometer

			•		
10 each	10 each	10 each	10 each	10 €	each
43P500Ω	43P5kΩ	43P500kΩ	43P1kΩ	43P	50kΩ
$43P2k\Omega$	43P20kΩ	$43P1M\Omega$	43P10kΩ	43F	100kΩ
Part No.	Description		Wt. (lbs.)	1	10
85041CH	100 pcs. 15 turn Pot ki	t	4.9\$	82.95	\$74.65

# **Individually Sold Potentiometers**

See pages 73-77



#### **Belden Coaxial Cables**

Compare Belden coaxial cables with the other companies who produce them and you will discover the obvious: Belden has no equal. That's because Belden coaxial cables are time-tested for performance, performance that guarantees outstanding value. Belden guarantees this level of performance because every cable is tested with equipment that simulates every known environmental and electrical performance condition. As a result, Belden coaxial cable can be counted on for positive, reliable, and trouble-free operation. Engineered in a wide selection of sizes and materials, with each offering the benefits needed for physical, electrical and cost-requirement applications. Cable choices include broadband, standard analog, precision video for analog and digital, and more. For our complete line of Belden products, please visit www.Jameco.com/Belden.

#### $50\Omega$ Transmission and Computer Cable RG8/U Type

#### 16 AWG stranded (19x29) .058" bare copper

- 95% bare copper braid shield
- Foam polyethylene insulation and black PVC jacket
- Nominal capacitance: 81.4pF/m Nominal impedance: 50Ω
- Nominal outer diameter: 0.242" · Color: black

Part No.	Product No.	Description	1	5	10
234254CH	9258-100-10	100' reel	. \$55.79	\$46.88	\$44.54
234256CH	9258-500-10	500' reel	. 205.99	168.99	159.99
234255CH	9258-1000-10	1000' reel	. 406.79	386.45	367.13
234258CH	9258-U500-10	500' unreel box	. 205.99	168.99	159.99
234257CH	9258-U1000-10	1000' unreel box	. 406.79	386.45	367.13

#### 13 AWG stranded (7 x 21) .085" bare copper

· 97% bare copper braid shield

Wire & Cable

- Polyethylene insulation and black PVC jacket
- Nominal capacitance: 93.5pF/m Nominal impedance: 52Ω
- Nominal outer diameter: .405" · Color: black

Part No.	Product No.	Description	1	5	10
232848CH	8237-100-10	100' reel \$11	4.39	\$103.98	\$95.32
232856CH	8237-500-10	500' reel 39	7.75	361.54	331.44
232864CH	8237-1000-10	1000' reel 69	7.19	639.18	589.97

#### 11 AWG stranded (7 x 19) .108" bare copper

- · 97% bare copper braid shield
- Foam polyethylene insulation and black PVC jacket
- Nominal capacitance: 85.3pF/m
   Nominal impedance: 50Ω
- Nominal outer diameter: .285" · Color: black

Part No.	Product No.	Description	1	5	10
232750CH	8214-100-10	100' reel	. \$99.99	\$94.67	\$86.80
232768CH	8214-500-10	500' reel	. 523.45	475.83	436.21
232776CH	8214-1000-10	1000' reel	. 829.15	760.10	701.58

### 50Ω Transmission and Computer Cable RG58A/U Type

#### 20 AWG solid .032" bare copper

- · 95% tinned copper braid shield
- Polyethylene insulation and black PVC jacket
- Nominal capacitance: 93.5pF/m
   Nominal impedance: 51.5Ω
- Nominal outer diameter: .193" Color: black

Dort No	Product No.	Description	1 6	10
Part No.	Product No.	Description	1 5	10
232872CH	8240-100-10	100' reel \$39.9'	9 \$36.39	\$33.06
232881CH	8240-500-10	500' reel 137.7'	9 124.99	113.59
232899CH	8240-1000-10	1000' reel 250.4'	9 229.70	212.02
234175CH	8240-U500-10	500' unreel box 109.9	90.99	90.39
234174CH	8240-U1000-10	1000' unreel box 219.9	9 181.99	180.77

#### 20 AWG stranded (19 x 33) .035" tinned copper

- 95% tinned copper braid shield
- Polyethylene insulation and black PVC jacket
- Nominal impedance: 50Ω Nominal capacitance: 101pF/m
- · Nominal outer diameter: .192" · Color: black

Part No.	Product No.	Description	1	5	10
232936CH	8259-100-10	100' reel	\$44.79	\$40.64	\$36.93
232944CH	8259-500-10	500' reel	126.59	115.08	105.51
232952CH	8259-1000-10	1000' reel	261.15	237.29	221.43

#### 20 AWG stranded (19 x 32) .037" tinned copper

- 96% tinned copper braid shield
- Foam polyethylene insulation and black PVC jacket
- Nominal capacitance: 86.9pF/m
   Nominal impedance: 53.5Ω
- Nominal outer diameter: .194" Color: black

Part No.	Product No.	Description 1	5	10
232813CH	8219-100-10	100' reel \$35.99	\$34.30	\$31.90
232821CH	8219-500-10	500' reel 144.29	137.09	130.24
232830CH	8219-1000-10	1000' reel 299.99	286.18	265.47

# $50\Omega$ Transmission and Computer Cable RG174/U Type

#### 26 AWG stranded (7 x 34) .019" bare copper-covered steel

- 90% tinned copper braid shield
- Polyethylene insulation and black PVC jacket
- Nominal capacitance: 101pF/m • Nominal impedance:  $50\Omega$
- Nominal outer diameter: .110" · Color: black

Part No.	Product No.	Description	1	5	10
232784CH	8216-100-10	100' reel	\$35.45	\$32.18	\$29.23
232792CH	8216-500-10	500' reel	114.19	103.64	94.16
232805CH	8216-1000-10	1000' reel	215.99	203.97	193.77

### 75 $\Omega$ Broadband Coax CATV Cable RG6/U Type

#### 18 AWG solid .040" bare copper-covered steel

- Duobond® II +60% aluminum braid shield
- Gas injected foam polyethylene insulation and black PVC jacket
- Nominal capacitance: 53.1pF/m Nominal impedance:  $75\Omega$
- Nominal outer diameter: .270"

Part No.	Product No.	Description	1	5	10
233269CH	9116-100-10	100' reel	\$20.89	\$17.56	\$16.68
233277CH	9116-500-10	500' reel	. 57.19	50.07	47.57
233285CH	9116-1000-10	1000' reel	102.55	97.43	92.56

#### 18 AWG solid .040" bare copper-covered steel

- Duobond® IV guad shield
- Gas injected foam polyethylene insulation and black PVC jacket
- Nominal capacitance: 53.1 pF/m Nominal outer diameter: .298" Nominal impedance:  $75\Omega$  Color: black
- Nominal outer diameter: .298"

Part No.	Product No.	Description	1	5	10
232733CH	1189A-100-10	100' reel	\$23.99	\$20.14	\$18.13
233402CH	1189A-500-10	500' reel	83.99	67.87	64.48
232741CH	1189A-1000-10	1000' reel	152.55	144.93	137.68
234052CH	1189A-U500-10	500' unreel box	83.99	67.87	64.48

# Precision Video Cable for Analog and Digital RG6 Type

# 18 AWG solid .040" bare copper

- · DuoFoil® +95% tinned copper braid shield
- · Gas injected foam HDPE insulation, PVC jacket
- Nominal capacitance: 53.1pF/m Nominal impedance: 75Ω
- Nominal outer diameter: .275" · Color: black

Part No.	Product No.	Description	1	5	10
234099CH	1694A-100-10	100' reel	. \$66.49	\$55.86	\$53.07
234155CH	1694A-500-10	500' reel	. 199.99	162.90	150.90
234154CH	1694A-1000-10	1000' reel	. 403.75	327.78	303.80

### Direct Broadcast Satellite RG6 Type Cable

### 18 AWG solid .040" bare copper

- · DuoBond® II +60% aluminum braid
- Gas injected foam polyethylene insulation, PVC jacket
- Nominal capacitance: 16.2pF/m
- Nominal impedance:  $75\Omega$
- Nominal outer diameter: .270"

FIOUUCI NO.	Description		ິ່	10
1829AC-100-10	100' reel	\$14.99	\$13.99	\$12.99
1829AC-500-10	500' reel	54.99	52.24	49.63
1829AC-1000-10	1000' reel	106.99	96.29	91.48
	1829AC-100-10 1829AC-500-10	1829AC-100-10 100' reel	1829AC-100-10       100' reel       \$14.99         1829AC-500-10       500' reel       54.99	1829AC-100-10     100' reel     \$14.99     \$13.99       1829AC-500-10     500' reel     54.99     52.24       1829AC-1000-10     1000' reel     106.99     96.29

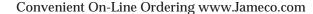
#### Composite Data, Audio, Video, Security and Control Cable Two RG6 18 AWG solid bare copper conductor and

# two 4-pair UTP 24 AWG solid bare copper conductor

- Banana Peel™ jacketless cables
- Gas injected FPR insulation coax cable, polyolefin insulation CAT5e cable and F-R PVC jackets
- Component nominal outer diameter: .200"







# Belden COT

#### Belden Coaxial Cables (Continued)

# 75Ω Standard Analog Video Cable RG59/U Type

#### 23 AWG solid .023" bare copper

- · 95% bare copper braid shield
- · Polyethylene insulation and black PVC jacket
- Nominal capacitance: 67.3pF/m Nominal impedance: 75Ω
- · Color: black Nominal outer diameter: .242"

Part No.	Product No.	Description	1	5	10
232901CH	8241-100-10	100' reel	. \$44.39	\$39.90	\$36.60
232910CH	8241-500-10	500' reel	. 125.19	113.62	103.17
232928CH	8241-1000-10	1000' reel	. 224.15	205.77	189.67

#### 22 AWG stranded (7 x 30) .030" bare copper

- · 95% bare copper braid shield
- Foam polyethylene insulation and black PVC jacket
- Nominal capacitance: 56.7pF/m • Nominal impedance:  $75\Omega$
- Nominal outer diameter: .241"
  - · Color: black



Part No.	Product No.	Description	1	5	10
232653CH	9259-100-10	100' reel	\$50.25	\$40.63	\$39.12
232661CH	9259-500-10	500' reel	135.85	123.44	120.99
232670CH	9259-1000-10	1000' reel	264.49	254.99	241.89
234070CH	9259-U500-10	500' unreel box	135.85	123.44	120.99
234069CH	9259-U1000-10	1000' unreel box	264.49	254.99	241.89

#### RG59 Type Security Coaxial Cable

#### 20 AWG solid bare copper conductor

- 95% bare copper braid shield
- Nominal impedance: 75Ω
- · Foam polyolefin insulation and black UV resistant PVC jacket
- Impregnated with CoreGuard® flame retardant flooding compound
- Shielded or flooded for use in underground ducts
- Surveillance and CCTV applications Color: black

Part No.	Product No.	Description	1	5	10
234158CH	543945-100-10	100' reel \$13	3.85	\$13.18	\$12.51
234160CH	543945-500-10	500' reel 64	4.95	61.98	58.92
234159CH	543945-1000-10	1000' reel 129	9.99	107.49	101.49

#### Standard Analog Video Cable 75 $\Omega$ Miniature Coax

#### 27 AWG stranded (7x35) .017" bare copper-covered steel

- · Polyethylene insulation and black PVC jacket
- · Nominal capacitance: 67.3pF/m
- Nominal impedance: 75Ω
- Nominal outer diameter: .100"
   Color: black

Part No.	Product No.	Description	1	5	10
234173CH	8218-U500-10	500' unreel box \$17	5.85	\$159.56	\$144.99
234172CH	8218-U1000-10	1000' unreel box 36	3.95	330.20	313.69

#### Broadband Coax (Headend/Video Cables)

#### 20 AWG solid .031" bare copper

- 98% tinned copper double braid shield
- Polyethylene insulation and jacket
- Nominal capacitance 68.9pF/m • Nominal impedance:  $75\Omega$
- Nominal outer diameter: .305" · Color: black

Part No.	Product No.	Description	1	5	10
232961CH	8281-100-10	100' reel	\$85.49	\$72.06	\$68.46
232979CH	8281-500-10	500' reel	349.99	299.99	269.75
232987CH	8281-1000-10	1000' reel	656.49	559.99	535.49

#### 20 AWG solid .032" solid bare copper

- · Duofoil® +95% tinned copper braid shield
- · Gas injected foam HDPE insulation and PVC jacket
- Nominal capacitance: 53.5pF/m • Nominal impedance:  $75\Omega$
- · Color: black Nominal outer diameter: .234"



# **Belden Speaker Cables**

These speaker cables are used to connect receivers or power amplifiers to speakers and are also used for the internal wiring of the speakers. All Belden speaker cables utilize only high-conductivity copper produced by a process called Electrolytic Tough Pitch (ETP). This refining process produces a conductor that is 99.95% pure copper resulting in high-conductivity per ASTM B115.

#### Electrolytic Tough Pitch (ETP) High Conductivity Copper Speaker Cables

- · 2-conductor stranded
- · ETP high conductivity copper
- · Parallel (1) tinned (1) bare
- PVC insulation
   Clear PVC jacket

# 18 AWG Stranded (16 x 30)

Part No.	Product No.	Description	1 5	10
232573CH	9708-100-368	100' reel \$32.!	\$29.48	\$26.79
232581CH	9708-500-368	500' reel 119.8	35 113.82	107.51
232590CH	9708-1000-368	1000' reel 227.!	59 214.99	202.33
234153CH	9708-U500-368	500' unreel box 119.4	19 113.22	106.98
234080CH	9708-U1000-368	1000' unreel box 227.	59 213.79	202.33
14 AWG S	tranded (19 x 27)			
232602CH	9717-100-368	100' reel	19 \$55.09	\$49.45
233429CH	9717-500-368	500' reel 255.0	59 242.25	218.04
232611CH	9717-1000-368	1000' reel 459.2	29 433.66	390.41
12 AWG S	tranded (65 x 30)			
232629CH	9718-100-368	100' reel \$126.3	35 \$106.13	\$100.82
232637CH	9718-500-368	500' reel 405.2	25 358.42	310.77
232645CH	9718-1000-368	1000' reel 849.9	799.99	749.99
		·		

# **Belden Hook-up Wire**

#### UL AWM Style 1007

Belden hook-up and lead wire products are manufactured in a variety of materials, sizes, and designs to meet rigid industry and government specifications. Used in a wealth of applications including inter-connection circuits, internal wiring of computer and data processing equipment, appliances, and automotive. AWM, or Appliance Wiring Material, is Underwriter Laboratories' recognized covering of insulated wires and cables intended for internal wiring of appliances and equipment.

- Tinned copper
   PVC insulated
- Rated 105°C, 300V; 600V peak for electronic circuits and electrical equipment
- Increments of 100' reels

#### Use the color code chart below to replace the "xx" when ordering

01 – Brown	02 – Red	03 – Orange	04 – Yellow	05 – Green
07 – Violet	08 – Gray	09 – White	10 – Black	13 – Dark blue

e.g. 234601CH - 2346 is the Jameco designation for 28 AWG stranded wire and 01 is for color brown

Part No.	Product No.	Description	1	5	10
2346xxCH	9928-100-xx	28 AWG (7 x 36) stranded	\$11.45	\$9.35	\$8.62
2345xxCH	9926-100-xx	26 AWG (7 x 34) stranded	12.29	11.13	10.10
2344xxCH	9923-100-xx	24 AWG (7 x 32) stranded	12.89	11.72	10.61
2343xxCH	9921-100-xx	22 AWG (7 x 30) stranded	14.79	13.51	12.26
2342xxCH	9919-100-xx	20 AWG (7 x 28) stranded	18.29	16.59	15.10
2341xxCH	9918-100-xx	18 AWG (16 x 30) stranded .	20.39	19.19	16.79
2340xxCH	9916-100-xx	16 AWG (26 x 30) stranded	28.29	22.99	21.25

### **Bus Bar Hook Up Wire**

Made in accordance with the performance requirements of Federal Specifications QQ-W343G.

- · Solid tinned copper, single conductor
- Nominal outer diameter: 24 AWG .021"; 22 AWG .026"; 20 AWG .033"

Part No.	Product No.	Description	1	5	10
234168CH	8022-100	24 AWG, 100' reel	\$10.49	\$9.49	\$8.63
234169CH	8022-1000	24 AWG, 1000' reel	57.29	46.31	42.75
234166CH	8021-100	22 AWG, 100' reel	11.65	9.39	8.49
234167CH	8021-1000	22 AWG, 1000' reel	70.69	60.26	55.73
234164CH	8020-100	20 AWG, 100' reel	13.29	11.67	10.55
234165CH	8020-1000	20 AWG, 1000' reel	93.69	79.85	73.84

SALE

#### **Belden Paired Cables**

Belden cable products are manufactured in a variety of gauge sizes, dimensions, insulation materials, shielding configurations, and jacketing materials including PVC, PLENUM and High-Temperature versions to meet the technical requirements of many different types of systems. Paired cables allow balanced signal transmission, which results in lower crosstalk through common mode rejection. Due to the improved noise immunity of twisted pairs, they generally permit higher data speeds than other multi-conductor cables. For our complete line of Belden products, please visit www.Jameco.com/Belden.

Chrome PVC jacket • Tinned copper • Twisted pairs • Tinned copper drain wire • Overall 100% BELDFOIL® shield (for shielded cables)

#### High-Temperature Control, Instrumentation Cables and Computer Cables

#### 24 AWG stranded (7 x 32) shielded with 24 AWG stranded TC drain wire

- Semi-rigid PVC insulation
   Nominal DCR: 24Ω/m
- Nominal impedance: 75Ω
   Color: chrome









950	2 Series		9503 Series	9504 Se	ries
Part No.	Product No.	No. of Pairs	Description	1 5	10
232709CH	9501-100-60	1	100' reel \$12.6	5 \$10.36	\$9.50
232717CH	9501-500-60	1	500' reel 63.6	5 60.28	56.93
232725CH	9501-1000-60	1	1000' reel 120.5	55 113.86	105.62
234073CH	9501-U500-60	1	500' unreel box 63.6	5 60.28	56.93
234072CH	9501-U1000-60	) 1	1000' unreel box 120.5	55 113.86	107.16
232451CH	9502-100-60	2	100' reel 19.9	9 16.99	15.49
232469CH	9502-500-60	2	500' reel 99.9	9 83.99	77.49
232477CH	9502-1000-60	2	1000' reel 179.5	55 154.39	153.49
234075CH	9502-U500-60	2	500' unreel box 99.9	9 83.99	77.49
234074CH	9502-U1000-60	) 2	1000' unreel box 181.3	154.99	154.49
232485CH	9503-100-60	3	100' reel 25.9	9 21.99	20.39
232493CH	9503-500-60	3	500' reel 129.9	9 110.99	99.99
232506CH	9503-1000-60	3	1000' reel 244.9	9 214.99	199.99
234077CH	9503-U500-60	3	500' unreel box 129.9	9 110.99	99.99
234076CH	9503-U1000-60	3	1000' unreel box 244.9	9 214.99	199.99
232514CH	9504-100-60	4	100' reel 32.9	9 26.99	24.99
232522CH	9504-500-60	4	500' reel 159.9	9 133.99	122.99
232531CH	9504-1000-60	4	1000' reel 275.2	252.39	232.96
232549CH	9505-100-60	5	100' reel 36.9	9 29.99	27.99
232557CH	9505-500-60	5	500' reel 177.9	9 168.78	159.51
232565CH	9505-1000-60	5	1000' reel 329.9	9 318.80	299.99
234078CH	9505-U500-60	5	500' unreel box 179.9	9 151.99	139.99
234079CH	9505-U1000-60	5	1000' unreel box 329.9	9 318.80	299.99

#### Low Capacitance Computer Cables

#### 24 AWG stranded (7 x 32) shielded with 24 AWG stranded TC drain wire

- · Datalene® insulation, chrome PVC jacket
- Nominal DCR: 24Ω/m
- Nominal impedance: 100Ω
- Color: chrome



78.55

142.83

Part No.	Product No.	No. of Pairs	Description	1	5	10
234178CH	1419A-100-60	2	100' reel	\$23.45	\$21.49	\$19.53
234085CH	1419A-500-60	2	500' reel	93.79	85.97	78.10
234084CH	1419A-1000-60	) 2	1000' reel	158.49	157.93	138.65

#### Audio, Control, and Instrumentation Cables Non-Plenum

#### 22 AWG stranded (7 x 30) shielded with 22 AWG stranded TC drain wire

· Polypropylene insulation

234062CH 8451-U500-10

234061CH 8451-U1000-10

- Paper wrap
- · Black PVC jacket
- Nominal capacitance: 111pF/m
- Nominal outer diameter: 138" · Color: black

Nomina	outer diameter		JOIOI . DIGCK			
Part No.	Product No.	No. of Pairs	Description	1	5	10
233111CH	8451-100-10	1	100' reel	\$19.45	\$17.65	\$16.04
233120CH	8451-500-10	1	500' reel	86.55	78.55	71.36
233138CH	8451-1000-10	1	1000' reel	155 79	142 83	131 84

500' unreel box ....... 86.49

1000' unreel box ..... 155.79

#### Audio, Control, and Instrumentation Cables Non-Plenum (Cont'd) 22 AWG stranded (7 x 30) shielded with 22 AWG stranded TC drain wire

- Polypropylene insulation
   PVC jacket
- Nominal capacitance: 111pF/m
- Nominal outer diameter: .135"
- · Color: gray

Part No.	Product No.	No. of Pairs	Description	1	5	10
232688CH	9451-100-08	1	100' reel	\$23.75	\$19.95	\$18.95
232696CH	9451-500-08	1	500' reel	90.29	79.09	71.19
233411CH	9451-T1000-08	3 1	1000' reel	136.19	131.25	124.69

#### 22 AWG stranded (7 x 30) shielded with 22 AWG stranded TC drain wire

- · Polyethylene insulation and chrome PVC jacket
- Nominal capacitance: 79pF/m
- Nominal outer diameter: .175"

· COIOI. CI	li offie					
Part No.	Product No.	No. of Pairs	Description	1	5	10
234190CH	8761-500-60	1	500' reel \$	92.59	\$80.22	\$77.14
234189CH	8761-1000-60	1	1000' reel 1	73.75	159.25	147.65
234192CH	8761-U500-60	1	500' unreel box	93.59	84.90	77.14
234191CH	8761-U1000-60	) 1	1000' unreel box 1	48.55	137.39	135.16

#### 22 AWG stranded (7 x 30) shielded with 24 AWG stranded TC drain wire

- Polypropylene insulation
- Nominal capacitance: 115pF/m
- Nominal outer diameter: .168"
- Color: chrome

Part No.	Product No.	No. of Pairs	Description	1	5	10
234179CH	8723-100-60	2	100' reel	\$21.49	\$19.54	\$17.76
234181CH	8723-500-60	2	500' reel	107.99	97.71	88.79
234180CH	8723-1000-60	2	1000' reel	195.79	179.51	165.72
234183CH	8723-U500-60	2	500' unreel box	110.99	99.99	84.99
234182CH	8723-U1000-60	2	1000' unreel box	199.99	189.99	179.99

#### 20 AWG stranded (7 x 28) unshielded

- Chrome PVC jacket
- Color: chrome

Part No.	Product No.	No. of Pairs	Description	1	2	5
234171CH	8205-U500-60	1	500' unreel box \$6	\$60.69	\$54.30	\$49.92
234170CH	8205-U1000-60	) 1	1000' unreel box	121.39	108.60	99.84

Lower \$\$\$

#### 20 AWG stranded (7 x 28) shielded with 22 AWG stranded TC drain wire

- · Semi-rigid PVC insulation and overall chrome PVC jacket
- Nominal capacitance: 180pF/m
- · Nominal outer diameter: 300"
- · Color: chrome

Part No.	Product No.	No. of Pairs	Description	1	5	10
234259CH	9402-100-60	2	100' reel	\$59.99	\$56.75	\$53.25
234261CH	9402-U500-60	2	500' unreel box	284.99	272.82	250.61
23/126UCH	0402-1000-60	2	1000' rool	546.75	501 22	162 63

### 18 AWG stranded (16 x 30) shielded with 20 AWG stranded TC drain wire

- Tinned copper, twisted pair
- Polyethylene insulation with chrome PVC jacket
- Nominal capacitance: 79pF/m
- · Nominal outer diameter: .222"
- · Color: chrome

)	Part No.	Product No.	No. of Pairs	Description	1	5	10
ļ	234184CH	8760-100-60	1	100' reel	\$34.49	\$28.93	\$27.48
ó	234186CH	8760-500-60	1	500' reel	117.75	106.82	97.05
1	234185CH	8760-1000-60	1	1000' reel	218.99	206.74	196.39
5	234188CH	8760-U500-60	1	500' unreel box	99.99	94.99	91.99
1	234187CH	8760-U1000-60	) 1	1000' unreel box	199.99	189.99	182.99



71.36

131.84

# Redeal Malog Audio Cable

20 AWG stranded (7 x 28) with 20 AWG stranded TC drain wire

· Polvethylene insulation with chrome PVC jacket

Nominal capacitance: 89pF/m

· Nominal outer diameter: .204"

Color: chrome



Part No.	Product No.	No. of Pairs	Description	1	5	10	
234194CH	8762-100-60	1	100' reel	. \$23.39	\$21.25	\$19.29	
234196CH	8762-500-60	1	500' reel	108.59	102.86	97.15	
234195CH	8762-1000-60	1	1000' reel	. 205.69	194.28	182.86	
234198CH	8762-U500-60	1	500' unreel box	108.59	102.86	97.15	
234197CH	8762-U1000-60	0 1	1000' unreel box	. 205.69	194.28	182.86	

#### 16 AWG stranded (19 x 29) shielded with 18 AWG stranded TC drain wire

· Polyethylene insulation

Nominal capacitance: 75pF/m

· Nominal outer diameter: .313"

· Color: chrome



Part No.	Product No.	No. of Pairs	Description	1	5	10
233146CH	8719-100-60	1	100' reel	\$59.99	\$54.99	\$49.99
233154CH	8719-500-60	1	500' reel	198.65	180.24	163.88
233162CH	8719-1000-60	1	1000' reel	349.99	329.99	309.99
234064CH	8719-U500-60	1	500' unreel box	198.65	180.24	163.88
234063CH	8719-U1000-60	) 1	1000' unreel box	349.99	329.99	309.99

#### 14 AWG stranded (19 x 27) shielded with 16 AWG stranded TC drain wire

Polyethylene insulation

Nominal capacitance: 79pF/m

Nominal outer diameter: .355"

· Color: chrome



Part No.	Product No.	No. of Pairs	Description	1	5	10
233171CH	8720-100-60	1	100' reel	. \$59.99	\$51.55	\$48.97
233189CH	8720-500-60	1	500' reel	. 229.99	214.99	199.99
233197CH	8720-1000-60	1	1000' reel	. 429.99	399.99	389.99
234065CH	8720-U500-60	1	500' unreel box	. 229.99	214.99	199.99



# Paired DataTwist® **Category 5e UTP Cable**

#### TIA/EIA - 568-B.2, unbonded-pair cable

- 4 pair unshielded
   24 AWG solid
- Maximum DCR per 100m 9.38Ω
- Input impedance: 100Ω

#### 1585A series:

- Plenum, FEP Teflon® insulation, Flamarrest® jacket
- · Nominal outer diameter: .200"

#### 1583A series:

- · Non-plenum, polyolefin insulation, PVC jacket,
- Nominal outer diameter: .214'

Part No.	Product No.	Color	Description	1 5	10
234092CH	1585A-100-877	Natural	100' reel \$29.9	9 \$28.49	\$26.99
234094CH	1585A-500-877	Natural	500' reel 129.9	9 114.99	99.99
234093CH	1585A-1000-877	Natural	1000' reel 199.9	9 189.99	179.99
234095CH	1585A-U1000-877	Natural	1000' unreel box 199.9	9 189.99	179.99
234096CH	1585A-U100-D15	Blue	100' unreel box 29.9	9 28.49	26.99
234098CH	1585A-U500-D15	Blue	500' unreel box 129.9	9 114.99	99.99
234097CH	1585A-U1000-D15	Blue	1000' unreel box 199.9	9 189.99	179.99
234089CH	1583A-100-06	Blue	100' reel 9.9	9.49	8.99
234176CH	1583A-500-06	Blue	500' reel 49.9	9 44.99	39.99
234090CH	1583A-1000-06	Blue	1000' reel 85.6	9 77.75	70.64
234091CH	1583A-U1000-06	Blue	1000' unreel box 85.6	9 77.75	70.64



# Multi-Conductor Audio, Control, and **Instrumentation Cables Non-Plenum**

#### 22 AWG stranded (7 x 30) shielded with 22 AWG stranded TC drain wire

- · Polyethylene insulation
- Nominal capacitance: 75pF/m
- Nominal outer diameter: .199" Color: chrome

Part No.	Product No.	Conductors	Description	1	5	10
233234CH	8771-100-60	3	100' reel \$	29.99	\$25.95	\$24.65
233242CH	8771-500-60	3	500' reel	99.49	94.31	89.07
233251CH	8771-1000-60	3	1000' reel 1	88.85	178.14	167.66
234067CH	8771-U500-60	3	500' unreel box	99.49	94.31	89.07
234066CH	8771-U1000-60	) 3	1000' unreel box 1	88.85	178.14	167.66

#### 22 AWG stranded (7 x 30) unshielded

• PVC insulation • Color: chrome









ries	8445 Serie

Part No.	Product No.	Conductors	Description 1	5	10
232995CH	8442-100-60	2	100' reel \$11.99	\$10.99	\$9.99
233007CH	8442-500-60	2	500' reel 51.59	48.91	46.19
233015CH	8442-1000-60	2	1000' reel 96.45	92.38	85.69
234054CH	8442-U500-60	2	500' unreel box 51.59	48.91	46.19
234053CH	8442-U1000-60	2	1000' unreel box 96.45	92.38	85.69
233023CH	8443-100-60	3	100' reel 15.69	14.25	12.94
233031CH	8443-500-60	3	500' reel 72.75	68.91	65.09
233040CH	8443-1000-60	3	1000' reel 137.79	130.17	120.75
234056CH	8443-U500-60	3	500' unreel box 72.75	68.91	65.09
234055CH	8443-U1000-60	3	1000' unreel box 137.79	130.17	120.75
233058CH	8444-100-60	4	100' reel 19.99	18.21	16.54
233066CH	8444-500-60	4	500' reel 92.99	88.07	83.19
233074CH	8444-1000-60	4	1000' reel 176.19	166.35	154.31
234058CH	8444-U500-60	4	500' unreel box 92.99	88.07	83.19
234057CH	8444-U1000-60	4	1000' unreel box 176.19	166.35	154.31
233082CH	8445-100-60	5	100' reel 25.15	22.76	20.69
233091CH	8445-500-60	5	500' reel 111.99	101.80	93.33
233103CH	8445-1000-60	5	1000' reel 220.25	207.99	192.96
234060CH	8445-U500-60	5	500' unreel box 111.99	101.80	93.33
234059CH	8445-U1000-60	5	1000' unreel box 220.25	207.99	192.96

#### 20 AWG stranded (7 x 28) shielded with 20 AWG stranded TC drain wire

- · Polyethylene insulation and chrome PVC jacket
- Nominal capacitance: 89pF/m

Nominal outer diameter: .218			Color: chrome			
Part No.	Product No.	Conductors	Description	1	5	10
234253CH	8772-U500-60	3	500' unreel box .	. \$132.79	\$120.77	\$110.69
234252CH	8772-U1000-60	3	1000' unreel box	241.49	221.39	204.35

### 18 AWG stranded (16 x 30) shielded with 20 AWG stranded TC drain wire

- · Polyethylene insulation
- Nominal capacitance: 79pF/m
  - Nominal outer diameter: 246" · Color: chrome

· Nomman	outer diameter	240	COIOI. CHI OTTIC		-/	
Part No.	Product No.	Conductors	Description	1	5	10
233200CH	8770-100-60	3	100' reel	\$59.99	\$54.99	\$49.99
233218CH	8770-500-60	3	500' reel	165.65	150.29	136.55
233226CH	8770-1000-60	3	1000' reel	299.99	276.09	254.84
234083CH	8770-U500-60	3	500' unreel box	165.65	150.29	136.55
234082CH	8770-U1000-60	3	1000' unreel box	299.99	276.09	254.84

#### Belden® Cable Now at Jameco!

Professionals don't take chances when it comes to cables, so here's great news. Now you can get your Belden cables from Jameco. The undisputed leader in quality cabling, Belden is the cable of choice for critical applications like Internet, intranet and communication network backbones. We offer the Belden cable of your choice in reels ranging from 100' to 1,000'. You'll find a wide variety of cable types, stranded and solid core, single and multi-conductor, coax, and more. And you'll find them all at very competitive prices, with our fast, efficient service at no extra charge.

22541CH

# RG Type Bulk Coaxial Cable

RG58/U & RG58A/U (50Ω): Nom. cap.: 27pF/ft.; center resist.: 10.4Ω/1kft. @ 77°F RG59/U (75 $\Omega$ ): Nominal capacitance: 19pF/ft.; center resist.: 16.5 $\Omega$ /kft. @ 77°F **RG174/U (50\Omega):** Nominal capacitance: 30.8pF/ft.; center resist.: 97 $\Omega$ /kft. @ 77°F

· Prepackaged and priced in increments of 100' or 1000'

Part No.	Cross Ref. No.	Description	100 ft.	1000 ft.
102226CH	RG58/U	For ethernet, oscilloscopes (solid 20AWG)	\$11.99	\$108.50
116898CH	RG58A/U	For ethernet, oscilloscopes (stranded 20AWG)	. 18.99	150.00
102218CH	RG59/U	For CATV & video patch cords (solid 22AWG)	. 12.99	110.00
112037CH	RG174/U	For ethernet, oscilloscopes (stranded 26AWG)	. 18.99	169.00

### Solid Hook-Up Wire – 22 AWG

- Temp. range: -55°C to +105°C Passes UL VW-1 flame test • MIL-W-16878D type B • Wt.: 100' (0.3 lbs.); 1000' (3.8 lbs.)
- For use with breadboards such as the JE20 series, pg 242

	Cross				Cross	-	3
Part No.	Ref. No.	Color	100 ft.	Part No.	Ref. No.	Color	1000 ft.
36767CH	122BE/C	Blue	\$5.49	36775CH	122BE/K	Blue	\$39.99
36791CH	122BK/C	Black	5.49	36804CH	122BK/K	Black	39.99
36821CH	122G/C	Green	5.49	36839CH	122G/K	Green	39.99
36855CH	122R/C	Red	5.49	36863CH	122R/K	Red	39.99
36880CH	122W/C	White	5.49	36898CH	122W/K	White	39.99
36919CH	122Y/C	Yellow	5.49	36927CH	122Y/K	Yellow	39.99

# Modular Telephone Cable - 28 AWG

· Color coded conductors · Flat modular cable

PVC jacket • Gray • 7 x 43 stranded

-	-				
Part No.	Cross Ref. No.	Conductors	100 ft.	1000 ft.	5000 ft.
103430CH	MTC4	4	\$3.49	\$30.00	\$140.00
103448CH	MTC6	6	7.49	50.00	235.00
102450011	MATCO	0	0.00	(2.00	2/5 00

103430CH

See pages

92 - 93 for more Modular Cable and

Connectors

118130CH

# 2-Conductor Stranded Power/Speaker Cable – 24 AWG

- · Black wire with white polarity stripe
- Temperature rating: 20°C to 60°C
- Stranded copper wire (7 x 32) Operating voltage: 300V

Part No.	Cross Ref. No.	Wt. (lbs.) 100 ft.	Part No.	Cross Ref. No.	Wt. (lbs.) 1000 ft.
100280CH	224BK/C	0.8 <b>\$5.59</b>	100298CH	224BK/K	7.8 <b>\$39.95</b>

# Category 5 Network Cable

- 100MHz 8C 4 twisted pairs UTP
- Insulation: polyethylene
   Nom. OD.: 0.189"
- Nom. impedance: 100Ω

Solid: uses modular plug P/N 119343CH, pg 93 Stranded: uses modular plug P/N 79281CH, pg 93

Prepackaged and priced in increments of 25', 100' or 1000'

#### 24 AWG UTP Category 5 Enhanced - 350MHz

Part No.	Description	25 ft.	100 ft.	1000 ft.
176225CH	Solid (gray)	. \$4.99	\$17.00	\$100.00
176233CH	Stranded (gray)	5.99	21.00	180.00
201582CH	Stranded (blue)	5.99	18.00	160.00

# 24 AWG LITP Category 5 - 100MHz

2771110	on category o room	*****		
Part No.	Description	25 ft.	100 ft.	1000 ft.
118130CH	Stranded (gray) (7/32 AWG)	\$5.95	\$19.35	\$164.50

### Multiconductor Shielded Computer Communication Cable – 24 AWG

- Stranded copper wire, multi-colored insulation
- Insulated with polyvinyl chloride (PVC)
  Voltage rating: 300V Color: gray 24 AWG (7 x 32 AWG)
  Shielded 100% w/ aluminum mylar Drain wire
- Prepackaged and priced in increments of 25', 100' or 1000'

	•						
Part No.	Cross Ref. No.	Conductors	Diameter	25 ft.	100 ft.	1000 ft.	
31860CH	SC4	4	0.20"	\$4.75	\$17.00	\$140.00	
31878CH	SC9	9	0.23"	11.25	35.00	270.00	
31843CH	SC15	15	0.28"	14.75	49.00	430.00	
31851CH	SC25	25	0.37"	22.25	71.00	590.00	

#### Call for OEM pricing

# **JJJ** UL 1430 Stranded Hook-up Wire

Temperature rating: 105°C
 Voltage: 300V
 18/20 AWG



#### Twisted Pair Cable – 24 AWG

• PVC insulation • Use for hook up wire • Stranded tinned wire (7 x 32)

Reduced EMI
 Wt.: 100' (0.5 lbs.); 1000' (4.7 lbs.)
 80C°
 300 V

	Cross				Cross		
Part No.	Ref. No.	Color	100 ft.	Part No.	Ref. No.	Color	1000 ft.
105911CH	224GW/C	Green/white	\$5.49	105806CH	224GW/K	Green/white .	. \$44.95
173147CH	224RW/C	Red/white	5.49	173155CH	224RW/K	Red/white	44.95
173163CH	224BW/C	Black/white	5.49	173171CH	224BW/K	Black/white	44.95

### Kynar™ Wire Wrap Wire – 30 AWG

- Assorted color coded insulation · Used for prototyping
- Color coded Kynar™ (Polyvindene Fluoride) insulation
- Silver plated copper (solid conductor) UL 1423
- Temperature: -40°C to +125°C · See pg 111 for sockets
- Wire wrap tools, pg 230
   Passes UL VW-1 flame test

Part No.	Color	Wt. (lbs.)	100 ft.	Part No.	Color	Wt. (lbs.)	1000 ft.
22541CH	Blue	0.1	\$4.95	22550CH	Blue	0.6	\$29.95
22576CH	Black	0.1	4.95	22584CH	Black	0.6	29.95
22630CH	Red	0.1	4.95	22648CH	Red	0.6	29.95
22664CH	White	0.1	4.95	22672CH	White	0.6	29.95
22605CH	Green	0.1	4.95	22613CH	Green	0.6	29.95
22699CH	Yellow	0.1	4.95	22701CH	Yellow	0.6	29.95

# Gray Flat Ribbon Cable – 28 AWG 103481CH

- Single edge red stripe for pin 1 orientation
- Insulation: polyvinyl chloride (PVC) 28 AWG (7 x 36) Center spacing: 0.05"
- Voltage rating: 300V
   Stranded copper wire
   Temp. rating: -20°C to +80°C
- · Prepackaged and priced in increments of 10', 25', 100' or 500'

Part No.	Cross Ref. No.	Conductors	10 ft.	25 ft.	100 ft.	500 ft.
135538CH	171-10	10	\$1.49	\$3.20	\$11.50	\$47.50
37671CH	171-16	16	2.19	5.00	16.00	70.00
37719CH	171-20	20	3.99	6.25	16.00	65.00
37760CH	171-25	25	3.89	8.75	25.00	110.00
37807CH	171-26	26	3.49	8.00	25.00	120.00
37840CH	171-34	34	4.25	9.25	32.00	120.00
37911CH	171-37	37	5.89	11.75	32.00	125.00
37920CH	171-40	40	7.39	17.50	48.00	215.00
37954CH	171-50	50	6.75	14.50	49.00	210.00
103481CH	171-60	60	8.95	19.75	65.00	285.00

#### Multicolor Flat Ribbon Cable – 28 AWG

- Standard 10-color repeat sequence 28 AWG (7 x 36) Center spacing: 0.05 Voltage rating: 300V
- Temp. rating: -20°C to +80°C Stranded copper wire
- · Prepackaged and priced in increments of 10', 25', 100' or 500'





105718CH



31843CH

5.35



#### [AMECO **Value**Pro

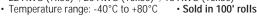
• 80°C

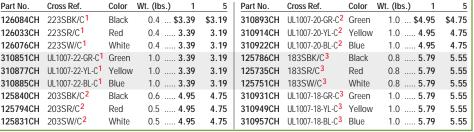
# **UL 1007 Stranded Hook-Up Wire**



 PVC insulation • CSA: TR-64

22 AWG (7x30)<sup>1</sup>; 20 AWG (10x30)<sup>2</sup>; 18 AWG (16x30)<sup>3</sup>





EXCLUSIVE



#### Disk Drive Cables



	j Diiio oubioo				
1850840	H	32918CH	185076CH	72805CH	175492CH
1030040	,,,	32710011	100070011	72003011	175472011

Part No.	Description	Cable Length	1	10	100
185084CH	34-pin header socket ribbon cable for floppy drive	25"	. \$1.19	\$.99	\$.75
185068CH	34-pin header socket ribbon cable for floppy to card	9"	2.95	2.51	1.88
32918CH	34-pin header socket ribbon cable for floppy to card	23"	3.49	2.99	2.25
185076CH	40-pin IDE hard drive cable to card	14"	79	.65	.49
32686CH	40-pin IDE hard drive cable to card	18"	3.95	3.49	2.95
72805CH	Two 40-pin header socket ribbon cable for IDE drive	18"	3.69	3.14	2.35
175492CH	40-pin header socket ribbon cable for ultra DMA66/100	17"	6.95	6.25	5.49

# **Internal and External SCSI Cables for Complete Connectivity**

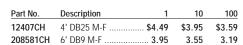


Part No.	Description 1	10	100
32715CH	50-pin header socket ribbon cable SCSI-I (18")	\$3.49	\$2.95
137550CH	68-pin header internal ribbon cable SCSI-III (27")	11.25	10.15
118084CH	Male 50-pin Centronics to male HPDB50 cable SCSI-I to SCSI-II (6')	10.25	9.35
118076CH	Male HPDB50 to male HPDB50 SCSI-II to SCSI-II (6')	15.95	13.95

12407CH

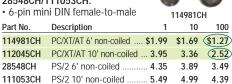
#### Ribbon Cable Assemblies

- · Metal connector
- 300V rating
- 105°C rating · 28 AWG flat cable
- Tin-plated contacts



# PC/XT/AT & PS/2 Keyboard **Extension Cables**

· Color: beige 114981CH/112045CH/: · 5-pin DIN male-to-female 28548CH/111053CH:



# AT-to-PS/2 and PS/2-to-AT **Keyboard Adapter Cables**

#### 28003CH/319783CH:

· Connects AT-type keyboards to PS/2

5-pin female DIN to 6-pin male mini DIN

#### 310789CH:

· Connects PS/2 keyboard to AT

Description

6-pin female mini DIN to 5-pin male DIN connectors

Part No.	Length	Color	1	10	100
319783CH	4.5"	Black	\$2.45	\$2.19	\$1.99
28003CH	6.5"	Beige	3.95	3.49	3.15
310789CH	7.5"	Beige	3.95	3.49	3.15

### Dual PS/2 Adapter

Converts a dual PS/2 female to a single PS/2 male. Size: 1.9"L x 1.2"W





28003CH



\$2.59

# 3.5" Disk Drive Power Adapter Cable

· IBM PC/XT and higher compatibles

Allows connection of standard 3.5" disk drives to power suppli

iniez		1
es	-13	
1	10	100

Part No.	Length	AWG	1	10	100
28396CH	3.5"	22	. \$2.49	\$2.25	\$1.95

# 3.5" & 5.25" Disk Drive **Power Splitters**

· IBM PC/XT and higher compatibles Splits 4-line Molex 28353CH male into 2 females

Part No.	Drive	AWG	Length	1	10	100
28353CH	5.25"	18	5"	. \$2.95	\$2.69	\$2.39
277528CH	5.25"	20	6"	2.85	2.59	2.25
72303CH	3.5"	22	5"	2.75	2.49	2.19

# **AT/ATX Power Supply Extension Cables**

#### 348891CH

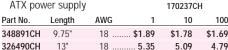
 For use with 12-pin AT power supplies

#### 326490CH/170237CH For use with ATX

- power supplies
- 20-pin ATX male and Lower \$55 female connectors
- Color coded to ATX power supply

Part No.

170237CH



5.95

348891CH

# IEEE 1284 Parallel/ Serial **High Speed Cables**

Compatible with bidirectional communication data flow resulting in speeds up to 10 times faster than conventional applications.

15"

- · Double shielded with 28 AWG stranded twisted pair inner conductors
- · Molded shells, PVC plastic
- Color: beige (P/N 130067CH/319767CH) black (P/N 161630CH); gray (P/N 223845CH)
- Weight: 0.6 lbs.

Part No.	Description 1	10
130067CH	6' DB25 M-Cent. parallel 36M \$11.95	\$10.95
319767CH	6' DB25 M-Cent. parallel 36M 4.95	4.69
223845CH	6' DB25 M-Cent. parallel 36M 11.95	10.95
161630CH	10' DB25 M-M serial cable 14.95	13.49

### **IEEE 488 Cables**

A variety of cable lengths are offered to ensure that IEEE system requirements are met (20 meters maximum length with a maximum of



223845CH

15 devices). These cables are standard IEEE 488 with stackable 24-pin GPIB connectors on both ends. • Color: gray

Part No.	Description	Wt. (lbs.)	1	10	25
73154CH	1 meter	0.8 <b>\$36.</b>	49	\$32.79	\$29.49
115781CH	2 meter	1.2 <b>37.</b>	95	34.19	30.95
115801CH	4 meter	2.0 <b>38.</b>	95	36.19	31.95

PS/2 adapter ..... \$2.75





#### **RGB Video Cables**



• 5 BNCs to HDDB15-pin male · Weight: 0.9 lbs.

Part No.	Description	1	10	25
73648CH	6' cable (black)	\$19.95	\$16.99	\$12.75
118068CH	10' cable (black)	23.35	19.85	14.89

#### Serial Null Modem Cables

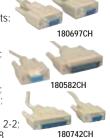
 Molded type connectors Color: gray

181403CH/180697CH Pin outs: 1 & 6-4, 2-3, 3-2, 4-6 & 1, 5-5, 7-8, 8-7

181438CH Pin outs: 2-2; 3-3; 5 & 6-4; 7-5; 8-7; 20-6 & 8 (Serial printer null modem) 180582CH Pin outs: 2-2; 3-3;

4-5 & 6; 5-7; 6 & 8-20; 7-8; (Serial printer null modem) 180742CH Pin outs: 1-4 & 5; 2-2;

3-3; 4-6; 5-7; 6-20; 7-8; 8-8



Part No.	Description V	Vt. (lbs.)	1 10	50
181403CH	6' DB9 F to DB9 F	0.3 <b>\$5.6</b>	9 \$5.09	\$4.59
180697CH	10' DB9 F to DB9 F	0.4 <b>6.7</b>	9 6.09	5.49
181438CH	6' DB25 M to DB9 F	0.4 <b>4.9</b>	5 4.49	3.95
180582CH	10' DB25 M to DB9 F	0.4 <b>6.6</b>	9 6.05	5.45
180742CH	10' DB25 F to DB9 F	0.5 <b>7.3</b>	9 6.65	5.99

#### VGA Monitor Cables

- · Connects video card to VGA monitor
- · IBM PC/XT and higher compatibles
- HDDB15 male to male

TIDDD 13 ITIAIC to ITIAIC				
Part No.	Description	1	10	100
66173CH	6' monitor cable	\$6.49	\$5.89	\$5.29
148523CH	10' monitor cable	6.95	6.25	5.59

#### 9-Pin Monitor Cable

- For monochrome, RGB, EGA and multisync monitors
- · Connects video card to monitor
- · IBM PC/XT and higher compatibles

Part No.	Description	1	10	100
66157CH	6' DB9 M-M	\$4.45	\$3.95	\$3.55

#### VGA Monitor Extension Cables

· Extends VGA monitor cable; HDDB15 male-to-female

 IBM PC/XT and higher compatibles 134041CH: • HDDB15 female w/ hex nuts and HDDB15male w/ thumbscrews

#### 66165CH/148531CH:

<ul> <li>Thumbso</li> </ul>	13	4041CH	
Part No.	Description 1	10	100
134041CH	6' screws/hex nuts \$4.49	\$3.95	\$3.49
66165CH	6' thumbscrews 6.59	5.95	5.35
148531CH	10' thumbscrews 7.49	6.79	5.99

JAMECO ValuePro	Macintosh	Printer	r Cab	les
valuerro	6 6	EXCLUSIVE	4	
10604CH		130024CH	6	
Part No.	Description	1	10	50
10604CH	6' mini DIN8M	\$3.29	\$3.15	\$2.99
130024CH	10' mini DIN8M	5 99	5 30	4 85

#### **DA15 Extension Cables**

- · Molded connectors
- · Straight through
- Thumbscrews
- · Color: gray (237032CH: black)



28716CH

Part No.	Description	Length	1	10	100
181286CH	DA15 M-M	6' \$5	5.49	\$4.95	\$4.45
181358CH	DA15 M-F	6' 5	5.49	4.95	4.45
237032CH	DA15 M-F	8' <i>6</i>	5.99	5.95	4.45

# **DB25-to-Centronics Parallel Printer Cables**

· Molded and fully **Quantity SAVE** shielded DB25 male and 36-pin Centronics male connectors

 IBM PC/XT and higher compatibles

ingiliar companio			104///	СП
Part No.	Description	Wt. (lbs.) 1	10	100
28716CH	6' straight	0.4 <b>\$4.69</b>	\$4.25	\$3.85
223845CH	6' straight	0.6 <b>11.95</b>	10.95	9.75
123781CH	10' straight	0.6 <b>5.95</b>	5.09	3.79
164777CH	10' right angle	* 0.7 <b>4.95</b>	4.45	3.95
28708CH	15' straight	0.8 <b>5.95</b>	5.09	3.79
101899CH	25' straight	1.1 <b>5.95</b>	5.09	3.79

Centronics right angle

180611CH

# 37-Pin Straight Through Cable Adapters



IVIOIUCU (	JOHN CCIOI 3	color. gray	wcigiit.	0.7 103.
Part No.	Description	1	10	100
180611CH	6' DC37 M-M	\$6.95	\$6.29	\$5.65
181294CH	6' DC37 M-F	5.95	5.49	4.95

#### Monitor/Mouse/Keyboard Cables

6' or 32'

· HDDB15 male/female for monitor, 5-pin DIN male/female for keyboard, and DB9 male/female for mouse



205655CH

Part No.	Description	Wt. (lbs.)	1412840	10
141284CH	6' cable	1.6	\$22.95	\$19.95
141276CH	32' cable	4.8	39.95	35.95

# **Switch Box Adapter Cables**

177261CH: Male to male non-coiled cable for P/N 79177CH switch box, pg 201 114913CH: Male to male coiled cable for P/N 114155CH 174772CH

switch box, pg 201 174772CH: Male to male 174908CH/205655CH: Male to male non-coiled 112627CH: Male to male

non-coiled cable for P/N 79177CH switch box, pg 201

Part No.	Description	Length	1	10	50
114913CH	5-pin DIN	5' (gray)	\$4.95	\$4.49	\$3.95
177261CH	6-pin mini DIN	2' (gray)	2.95	2.55	1.89
174772CH	6-pin mini DIN	6' (black)	4.95	4.25	3.19
174908CH	6-pin mini DIN	6' (gray)	5.75	5.15	4.65
112627CH	6-pin mini DIN	10' (beige)	7.95	7.25	6.49
205655CH	6-pin mini DIN	25' (beige)	8.95	7.95	6.95

#### DB9 Extension Cables



 All lines connected straight through 132345CH/196365CH: DB9 female to DB9 female cable with thumbscrews 326502CH/199638CH/25700CH/148515CH: DB9 male to DB9 female cable with thumbscrews 181665CH: DB9 male to DB9 male cable

Part No.	Description	1	10	100	1000
326502CH	3' M-F	\$3.95	\$3.75	\$3.55	\$3.15
132345CH	6' F-F	4.95	4.49	3.95	3.49
199638CH	6' M-F (black	() 4.49	3.95	3.49	2.95
25700CH	6' M-F	4.95	4.49	3.95	3.49
196365CH	10' F-F	6.95	6.25	5.59	4.95
148515CH	10' M-F	7.49	6.79	5.99	4.95
181665CH	10' M-M	6.95	6.25	5.59	4.95

#### 9-Pin Test Cable

• DB9 M to DB9 F (6') • Pin outs: 1-3, 2-2, 4-5

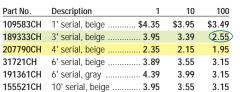
31721CH

67256CH

Part No. Description 162915CH DB9 male to DB9 female \$2.95 \$2.51 \$1.88

# DB9-to-DB25 AT-Adapter **Serial Cables**

- · For DB9 serial ports which need to be converted to DB25 serial
- AT and compatibles
- Molded DB9 female to DB25 male connectors



#### **DB25 Extension Cables**

**Quantity SAVE** 

- · All lines connected straight through
- Use to lengthen your standard serial cable or for switch box applications
- Thumbscrews to secure connectors
  - Color: gray; except



Part No.	Description	Wt. (Ib	s.) 1	10	50	100
281551CH	3' M-M	0.4	\$4.45	\$4.25	\$3.99	\$3.79
174001CH	3' M-M*	0.6	4.79	4.35	3.89	3.49
65787CH	6' M-M	0.5	6.49	5.89	5.29	4.89
39538CH	10' M-M	0.7	6.95	6.29	5.05	3.69
179979CH	15' M-M	1.2	6.95	6.29	5.05	3.65
67070CH	25' M-M	1.4	10.95	9.95	8.95	7.95
180435CH	50' M-M	3.6	14.95	13.49	11.95	9.95
164291CH	3' M-F	0.4	4.29	3.89	3.49	2.95
175290CH	3' M-F*	0.4	2.95	2.69	2.25	1.59
163133CH	5' M-F	0.6	5.29	4.75	4.29	3.85
67256CH	6' M-F	0.6	6.45	5.79	5.25	4.69
39511CH	10' M-F	0.7	6.95	6.29	5.05	3.69
177279CH	15' M-F	1.0	9.49	8.55	7.69	6.25
101995CH	25' M-F	1.4	11.95	10.79	9.69	7.95
181201CH	50' M-F	3.2	17.95	14.39	10.79	8.09
224266CH	6' F-F	0.7	4.95	3.95	2.95	2.09



### **USB-A Cables with Bracket**

· Supports data transfer rates of 12Mbps

 Allows connection Lower \$\$\$ of two devices

144813CH

Dual USB-A female connectors

Part No.	Description	1	10	25
144813CH	Female panel mount \$6.	\$3.95	\$3.75	\$3.55
319652CH	Male panel mount	3.95	3.75	3.55

#### **USB-to-Centronics ATEN** Printer Cable **SALE**

- · Full compliance with the USB spec V.1.0
- · USB-A male to 36-pin male centronics connector
- · Supports true bidirectional communication Applicable to standard and bidirectional printers



# **USB** to Serial Adapter with Prolific Chipset

This USB serial adapter provides an external Plug-and-Play RS-232 port for computers, notebooks, laptops, and handheld computing

devices. Provides high-quality serial connections at transfer rates of more than 500kbps.

- · Frees existing RS-232 ports for other uses
- · Supports RS-232 serial interface, automatic handshake mode, remote wake-up & power management
- Provides a 96-byte buffer for each upstream and • Weight: 1.5 lbs. downstream data transfer
- Full compliance with USB specification v 1.1
- 7" cable with DB25 male connector and 14" cable with USB-A connector • Size: 2.7"L x 1.6"W x 0.7"H

System requirements: Windows 98/2000, USB host controlled installed in the system

Includes: 3.5" software and manual

Part No.	Description	<u> </u>
213006CH	USB-A to serial converter \$29.95	\$27.95

#### Save Big! Special Values!

New Lower Price = Orange Sale Priced Items = Yellow Exceptional Quantity Discounts = Green

# **Retractable Firewire Cables**

Carrying all those extra cables for your computer peripherals such as printers, cameras, zip drives.



adds weight and gets tangled in your computer bag. With these retractable Firewire cables, you can easily store them in an inside pocket of your bag, plus they are tangle free. Just pull the cable on both ends of the spool and you have a high quality cable that extends to over 2'. Simply pull again and it retracts back into 

Part No.	Description	SALE	Price
227424CH	6-pin M – 4-pin M 400Mbps	<b>3</b>	\$6.75
227459CH	6-pin M − M 400Mbps <b>3</b>		6.75

#### **IEEE 1394 Firewire Cables**



175821CH 175839CH 175847CH

Connect your computer to the latest high speed Firewire peripherals.

- IEEE-1394 compliant
   UL approved
- · Molded connectors

#### 4-pin Male to 4-pin Male

Part No.	Description	1	10	25
222631CH	3' cable black	5.99	\$5.39	\$4.99
175821CH	6' cable black	7.99	6.99	5.99
222244CH	10' cable black	9.99	8.99	7.99
222252CH	15' cable black	12.99	11.69	10.49

#### 4-pin Male to 6-pin Male

Part No.	Description	1	10	25
222623CH	3' cable black	\$5.99	\$5.39	\$4.99
175839CH	6' cable black	. 7.99	6.99	5.99
222228CH	10' cable black	9.99	8.99	7.99
222236CH	15' cable black	12.99	11.69	10.49

#### 6-pin Male to 6-pin Male

MEW

Part No.	Description	1	10	25
222615CH	3' cable black \$5	.99	\$5.39	\$4.99
175847CH	6' cable black 7	.99	6.99	5.99
222201CH	10' cable black 9	.99	8.99	7.99
222210CH	15' cable black 12	.99	11.69	10.49

# Flexible USB Cable and Adapter

FlexUSB™ is a compact, lightweight accessory that bends, rotates, and flexes to your desired angle. It provides a means to position USB devices, allowing you to use it with any computer, even in the most cramped environment. Its unique ratcheting design makes it possible to position your USB devices that are compatible with both Windows® and MAC platforms.



Part No.	Description	MEW	1	5
262078CH	Flexible USB adapter A M-F	00500	\$10.95	\$9.85
262158CH	Flexible USB cable with A-M to B-M connector	'S	11.95	10.85

Flexible USB cables and adapters make plugging in cables an ease, especially in tight spots!

# **USB Gender Adapters**

Part No.	Description	Dimensions	1	10	25
321251CH	USB-A male to USB-A male	1.9"L x 0.6"W	\$2.79	\$2.65	\$2.39
169383CH	USB-A male to USB-B female	1.3"L x 0.4"W	2.69	2.49	2.25
169375CH	USB-A female to USB-B male	1.7"L x 0.6"W	2.69	2.49	2.25
316806CH	USB-A female to USB-A female	1.5"L x 0.7"W	2.69	2.49	2.25
321699CH	USB-B male to USB-B male	2.0"L x 0.4"W	2.79	2.65	2.49
316822CH	USB-B female to USB-B female	1.4"L x 0.7"W	2.69	2.49	2.25



#### **USB 2.0 Cables**



USB-B (M)

· Higher transfer rate up to 480Mbps

· Backward compatible w/ USB 1.1 pro



USB-A (F)

#### USB-A Male to USB-A Male

USB-A (M)

Part No.	Description	1	10	25
326473CH	3' cable beige	\$1.55	\$1.39	\$1.29
229681CH	6' cable beige	1.65	1.49	1.39
222033CH	6' cable black	1.65	1.49	1.39
229551CH	6' cable clear	1.65	1.49	1.39
229690CH	10' cable beige	1.89	1.75	1.65
222041CH	10' cable black	1.89	1.75	1.65
229569CH	10' cable clear	1.89	1.75	1.65
229702CH	15' cable beige	2.85	2.59	2.49
222050CH	15' cable black	2.85	2.59	2.49
229577CH	15' cable clear	2.85	2.59	2.49

#### USB-A Male to USB-B Male

Part No.	Description	1	10	25
229711CH	3' cable beige \$1.5	5	\$1.39	\$1.29
222607CH	3' cable black 1.5	5	1.39	1.29
229585CH	3' cable clear 1.5	5	1.39	1.29
229729CH	6' cable beige 1.6	5	1.49	1.39
222009CH	6' cable black 1.6	5	1.49	1.39
229593CH	6' cable clear 1.6	5	1.49	1.39
229737CH	10' cable beige 1.8'	9	1.75	1.65
222017CH	10' cable black 1.8'	9	1.75	1.65
229606CH	10' cable clear 1.8'	9	1.75	1.65
229761CH	15' cable beige 2.8	5	2.59	2.49
222025CH	15' cable black 2.8	5	2.59	2.49
229614CH	15' cable clear 2.8	5	2.59	2.49

#### USB-A Male to USB-A Female

Part No.	Description	1	10	2
326481CH	3' cable beige	\$1.55	\$1.39	\$1.29
229770CH	6' cable beige	1.65	1.49	1.39
222068CH	6' cable black	1.65	1.49	1.39
229622CH	6' cable clear	1.65	1.49	1.39
229788CH	10' cable beige	1.89	1.75	1.65
222076CH	10' cable black	1.89	1.75	1.65
229631CH	10' cable clear	1.89	1.75	1.65
229796CH	15' cable beige	2.85	2.59	2.49
222084CH	15' cable black	2.85	2.59	2.49
229649CH	15' cable clear	2.85	2.59	2.49

#### **USB 1.1 Cables**

USB-A Male to	169359CH
USB-B Male	

Part No.	Description	1	10	25
308726CH	5' cable (black)	\$3.89	\$3.49	\$3.15
169359CH	6' cable	4.95	4.49	3.95

# **USB Keyboard Adapter**

#### USB to PS/2

 USB-A female to 6-pin mini DIN male (PS/2)



#### Color Code Legend Sale Lower\$ QtySave

# Category 5e Network Cables

- 8P8C
- · 4 pair
- 24 AWG
- (7 x 43) stranded
- · "Snagless" boot
- · Color coded for easy wire tracing
- High-flexibility
- Achieve optimum system performance

#### Category 5e (350MHz)

Part No.	Length	Color	1	10	100
168292CH	3 ft.	Gray	. \$1.79	\$1.49	\$1.39
168305CH	7 ft.	Gray	2.99	2.59	2.39
168313CH	15 ft.	Gray	5.29	4.39	3.99
168321CH	25 ft.	Gray	7.99	6.79	6.39
201777CH	3 ft.	Red	1.79	1.49	1.39
201785CH	7 ft.	Red	2.99	2.59	2.39
201793CH	15 ft.	Red	6.95	5.95	4.45
201806CH	25 ft.	Red	7.99	6.79	6.39
201697CH	3 ft.	Black	1.79	1.49	1.39
201700CH	7 ft.	Black	2.99	2.59	2.39
201718CH	15 ft.	Black	5.29	4.39	3.99
201726CH	25 ft.	Black	7.99	6.79	6.39
201734CH	3 ft.	Blue	1.79	1.49	1.39
201742CH	7 ft.	Blue	2.99	2.59	2.39
201751CH	15 ft.	Blue	5.29	4.39	3.99
201769CH	25 ft.	Blue	7.99	6.79	6.39
201814CH	3 ft.	Yellow	1.79	1.49	1.39
201822CH	7 ft.	Yellow	2.99	2.59	2.39
201831CH	15 ft.	Yellow	5.29	4.39	3.39
201849CH	25 ft.	Yellow	7.99	6.79	6.39

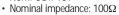
#### Category 5 (100MHz)

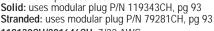
Part No.	Length	Color 1	10	100
281261CH	7 ft.	Gray \$2.49	\$2.39	\$2.25
281455CH	25 ft.	Gray 4.35	4.15	3.95
277641CH	6 ft.	Red 2.49	2.25	1.99
277659CH	12 ft.	Black 2.99	2.69	2.45
203051CH	10 ft.	Blue 2.75	2.15	1.59
277675CH	12 ft.	Blue 2.99	2.69	2.45
277616CH	6 ft.	Yellow 2.49	2.25	1.99
277667CH	12 ft.	Yellow 2.99	2.69	2.45

#### **Bulk Modular Network Cables**

- · 8 Conductor
- UTP
- 4 twisted pairs
- Insulation: polyethylene







118130CH/201646CH: 7/32 AWG

#### · Prepackaged and priced in increments of 25', 100' or 1000' 24 AWG UTP Category 5e - 350MHz

Part No.	Description	25 ft.	100 ft.	1000 ft.
176225CH	Solid (gray)	\$4.99	\$17.00	\$100.00
201603CH	Solid (blue)	4.99	14.00	90.00
176233CH	Stranded (gray)	5.99	21.00	180.00
201574CH	Stranded (red)	5.99	18.00	160.00
201591CH	Stranded (black)	5.99	18.00	160.00
201582CH	Stranded (blue)	5.99	18.00	160.00
201566CH	Stranded (vellow)	5 99	18 00	160 00

# 24 AWG UTP Category 5 - 100MHz

Part No.	Description	25 ft.	100 ft.	1000 ft.
118130CH	Stranded (gray)	\$5.95	\$19.35	\$164.50
201646CH	Stranded (black)	5.49	15.00	140.00

#### CAT 5e Crossover Cables

- Connect 2 PCs without a hub
- 24AWG (7 x 43) stranded
- · Strain relief RJ45 connectors 4-pair • 8P8C • UTP

Part No.	Description	1	10	100
302041CH	6' cable RJ45\$	3.75	\$3.39	\$3.05
169261CH	10' cable RJ45	6.95	6.25	5.59

# Keystone-Type Wall Plates

• Size: 2.8"W x 4.5"H





# 195557CH

212960CH

# Modular RJ-45 & RJ-11 Jacks

#### Punchdown Keystone Type

- · Removable jacks used in 212943CH wall plates (clip in)
- CAT 5e classification
- · Punchdown type wiring connections with color coding Size: 0.57"W x 0.63"H x 1.23"D

RJ45: 8P8C RJ11: 6P6C



# 213516CH

Part No.	Color	1	10	100
195590CH	Red	\$3.75	\$3.55	\$3.19
195602CH	Yellow	3.75	3.55	3.19
195611CH	Green	3.75	3.19	2.39
195629CH	Black	3.75	3.55	3.19
195637CH	Ivory	3.75	3.38	2.99
212951CH	Blue	3.75	3.55	3.19
212943CH	White	3.75	3.55	3.19

#### **RJ11**

118130CH

**RJ45** 

Part No.	Color	1	10	100
213524CH	Black	\$3.75	\$3.55	\$2.99
213516CH	White	3.75	3.55	3.19

# **BNC/F-Type Jacks**

- · Removable jacks used in wall plates (see above)
- Clip on for easy installation on wall plates

Part No.







Part No.	Description	Color 1	10	100
195645CH	F-Type F to FC	Ivory \$1.39 \$.99	\$.90	\$.82
224645CH	F-Type F to FC	White \$1.39 .99	.91	.83
224637CH	BNC F to F	White \$2.29 1.55	1.41	1.28

Blue Part No. = Limited Quantity Available

#### **RJ11 Retractable Cable**

This RJ11 cable extends up to 8'. And when you pack up, give it a tug and it retracts into its lightweight, rugged case like a windowshade. It's completely tangleproof.

Description





# Category 6 Network Cables





- · With RJ45 plugs and molded strain reliefs
- Assembled using ETL verified 24AWG stranded cable
- Gold over nickel contacts
- Exceeds performance levels as specified in TIA/EIA 568B.2-1 Category 6 draft 8

#### Category 6

Part No.	Length	Color 1	10	50
219707CH	3 ft.	Gray \$2.79	\$2.69	\$2.56
219715CH	7 ft.	Gray 3.99	3.87	3.68
219723CH	14 ft.	Gray 6.59	6.37	6.05
219731CH	25 ft.	Gray 9.39	8.92	8.47
219740CH	50 ft.	Gray 14.29	13.58	12.90
219854CH	3 ft.	Blue 2.79	2.69	2.56
219862CH	7 ft.	Blue 3.99	3.87	3.68
219871CH	14 ft.	Blue 6.59	6.37	6.05
219889CH	25 ft.	Blue 9.39	8.92	8.47
219897CH	50 ft.	Blue 14.29	13.58	12.90
220003CH	3 ft.	White 2.79	2.69	2.56
220011CH	7 ft.	White 3.99	3.87	3.68
220020CH	14 ft.	White 6.59	6.37	6.05
220038CH	25 ft.	White 9.39	8.92	8.47
220046CH	50 ft.	White 14.29	13.58	12.90
219900CH	3 ft.	Red 2.79	2.69	2.56
219918CH	7 ft.	Red 3.99	3.87	3.68
219926CH	14 ft.	Red 6.59	6.37	6.05
219934CH	25 ft.	Red 9.39	8.92	8.47
219942CH	50 ft.	Red 14.29	13.58	12.90
219803CH	3 ft.	Green 2.79	2.69	2.56
219811CH	7 ft.	Green 3.99	3.87	3.68
219820CH	14 ft.	Green 6.59	6.37	6.05
219838CH	25 ft.	Green 9.39	8.92	8.47
219846CH	50 ft.	Green 14.29	13.58	12.90
219758CH	3 ft.	Black 2.79	2.69	2.56
219766CH	7 ft.	Black 3.99	3.87	3.68
219774CH	14 ft.	Black 6.59	6.37	6.05
219782CH	25 ft.	Black 9.39	8.92	8.47
219791CH	50 ft.	Black 14.29	13.58	12.90
219951CH	3 ft.	Yellow 2.79	2.69	2.56
219969CH	7 ft.	Yellow 3.99	3.87	3.68
219977CH	14 ft.	Yellow 6.59	6.37	6.05
219985CH	25 ft.	Yellow 9.39	8.92	8.47
219993CH	50 ft.	Yellow 14.29	13.58	12.90
_				

# Tool-Less Modular RJ-45 Jack with Dust Door

A unique and simple CAT5e hardware component (TIA/ EIA-568 B.2) utilizing the universally accepted keystone mount. It offers a quick and reliable tool-less connection as the eight conductors are effortlessly terminated in a single operation.

- · UL verified TIA/EIA-568 B.2 CAT5e
- · Tool-less connector
- Keystone mount
   Integral shutter
- · Top or bottom cable insertion
- Self-stripping contacts

Part No. Product No. 10 100 VOL-OCK5E-U-W -\$6:89 \$5.55 263071CH \$4.99 \$4.55







# JAMECO ValuePro

= No. of positions

Part No.

103491CH

79290CH

79273CH

79281CH

119343CH

116610CH

204222CH

204231CH

116601CH

180646CH

115128CH

204177CH

Part No.

199620CH

115128CH

151765CH

105945CH

204206CH

115836CH

204177CH

124038CH

115844CH

204214CH

203449CH

Part No.

204409CH

204388CH

204353CH

204361CH

204425CH

204396CH

204370CH

Round strain relief

Black

79290CH

W/E = Western Electric type number

Description

4P4C (handset)

6P4C (R J11)

6P6C (RJ11)

8P8C (RJ45) (for

stranded wire)

8P8C (RJ45) unshielded (for solid wire)

8P8C (RJ45)

8P8C (RJ45) shielded (for STP solid wire)

8P8C (RJ45) shielded (for STP

stranded wire)

8P8C (RJ45)

10P10C (for

stranded wire)

JAMECO ValuePro Modular Jacks

151765CH

124038CH

 Contact current rating: 1.5A max. @ 25°C Durability: 750 mating cycles
 PC mount

4P4C (handset) .48"W

4P4C (handset) .395"W

6P4C (RJ11) side flange

6P4C (RJ11) top flange

6P4C (RJ11) lead wires

6P6C (RJ11) side flange

6P6C (RJ11) dual

8P8C (RJ45) .81"L

8P8C (RJ45) shielded Pin spacing "A" = .055"

RJ45-Plug Color

Caps (Boots)

8P8C (RJ45)

6P6C (RJ11) 6" leads

· Voltage rating: 150VAC max.

W/E = Western Electric type number

Description

shielded (for solid wire)

shielded

\* Prepackaged: order in increments of 10, 100 or 1000

# Modular Plugs (XXXIII)





C = No. of contacts

616

623 \* 12 11

623

641 .35 .28 .24

.49

1.09

1.55 1.49

> .99 .79 .65

1.39 1.15

105945CH

115844CH

W/E

AMP .45 .43 .39

641

10

....14

..... \$.14

\$.36 \$.33 \$.30

.37 .34 .31

.62 .56 .45

1.09

.74 .67 .59

1.49 1.35 1.19

1.25 1.15 99

48 44 40

1.19 1.09

1.19

204425CH

100 500 1000

\$.13

.12 .098 .073

12 11 091

.12 .098 .073

• 10 piece minimum

\$.12

.098 .073

> .12 .095



10 100 1000

\$.11

.22 .195

.44



\$.099

.35

.89

.79

1.15

.82





116610CH

\$.089

095

18

20

.28

.79

75

.95

(.49)

.69

EXCLUSIVE

115836CH

10 100

.99 .89

.95

.85

\$.09







**Modular Couplers** 

and Adapters

Fig. 3 W: 1.7" H: 1.0" D: 0.9"

**EXCLUSIVE** 

Style 1 Reverse wiring for telenhone systems

Style 2 Straight wiring for networking/printer sharing

icprioric systems	networking/printer snaming
011 2 2 3 3 4	(BK) 1 (C) 2 (C) 3 (C) 3 (C) 3

Part No.	Description	Fig.	1	10	100
72207CH	6P4C male "T" adapter, Style 2. Provides 2 jacks from 1 line. Male modular plug (6P4C), 2 female modular				
	receptacles (6P4C) RJ11	2	\$.99	\$.89	\$.80
71757CH	6P6C modular coupler, Style 1, RJ11	1	.95	.86	.79
135087CH	6P6C modular coupler, Style 2, RJ11	1	.99	.89	.79
181091CH	6P6C male "T" adapter, Style 2. Provides 2 jacks from 1 line. Male modular plug(6P6C), 2 female modular receptacles (6P6C) RJ11	2 .99		.89	.78
118501CH	8P8C modular coupler, Style 1, RJ45	1	1.85	1.75	1.55
135079CH	8P8C modular coupler, Style 2, RJ45	1	1.39	1.25	1.15
153023CH	8P8C modular coupler, Style 2 (for Cat. 5) R I45	3	7.99	7 19	6 49

# RS-232-to-RJ11/RJ45 **Modular Jack Adapters EXCLUSIVE**



Change your RS-232 port to a RJ11 or RJ45 modular jack. This will allow you to use modular phone cable rather than RS-232 cable, thus simplifying networking applications. Comes complete with all necessary wiring and hardware.

Part No.	Description	1	10	100
204265CH	DB9 M to RJ11(6P4C)	\$1.95	\$1.66	\$1.24
66181CH	DB9 M to RJ11(6P6C)	2.59	2.35	2.09
66190CH	DB9 M to RJ45(8P8C)	2.89	2.65	2.35
114737CH	DB9 F to RJ11(6P4C)	1.95	1.79	1.59
66202CH	DB9 F to RJ11(6P6C)	2.79	2.55	2.29
66211CH	DB9 F to RJ45(8P8C)	2.99	2.69	2.45
204281CH	DB25 M to RJ11(6P4C)	2.39	2.15	1.29
66229CH	DB25 M to RJ11(6P6C)	2.95	2.35	1.99
66237CH	DB25 M to RJ45(8P8C)	2.99	2.69	2.45
204273CH	DB25 F to RJ11(6P4C)	1.95	1.75	1.55
66245CH	DB25 F to RJ11(6P6C)	2.59	1.95	1.39
66253CH	DB25 F to RJ45(8P8C)	2.89	2.59	2.29









D: 0.9" D: 1.1" D: 1.1	Fig. 1 W: 2.8" H: 4.5"	Fig. 2 W: 2.8" H: 4.5"	Fig. 3 W: 2.8" H: 4.7"	Fig. 4 W: 2.0" H: 2.2" D: 0.9"	Fig. 5 W: 1.5" H: 2.4" D: 1.1"	Fig. 6 W: 2.4 H: 2.4 D: 1.1
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Part No.	Description	Fig.	1	10	100
72311CH	6P6C & 8P8C				
	double wall jack				
	plate w/ jacks (beige)	1	\$1.95	\$1.75	\$1.57
319839CH	8P8C triple wall jack plate				
	w/ jacks (white) (CAT 6)	2	11.19	10.65	10.09
319821CH	8P8C quad wall jack plate				
	w/ jacks (white) (CAT 5e)	3	11.75	11.15	10.59
103464CH	6P4C adhesive				
	jack RJ11 (beige)	4	1.39	1.19	1.09
71984CH	6P6C adhesive				
	jack RJ11 (beige)	4	1.39	1.19	.99
71651CH	8P8C adhesive				
	jack RJ45 (beige)	4	1.95	1.65	1.45
213031CH	8P8C adhesive jack RJ45				
	(single, white) (CAT 5e)	5	3.29	2.99	2.69
213049CH	8P8C adhesive jack RJ45				
	(dual, white) (CAT 5e)	6	4.15	3.75	3.39

# Modular Jack Boxes & Wall Plate

	16	150			1
•	*		The same of		
a. 1	Fig. 2	Fig. 3	Fig. 4	Fig. 5	Fig. 6

H: 4.5" H: 4.5" H: 4.7" H: 2.2" H: 2.4" D: 1.1" D: 1.1"	Fig. 1 W: 2.8" H: 4.5"	Fig. 2 W: 2.8" H: 4.5"	Fig. 3 W: 2.8" H: 4.7"	Fig. 4 W: 2.0" H: 2.2" D: 0.9"	Fig. 5 W: 1.5" H: 2.4" D: 1.1"	W: 2.4" H: 2.4" D: 1.1"
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# "EZ" RJ45 Connector

Strip the wire and insert into the plug & pull out the wire on the other side. This ensures correct conductor order and uniformity in crimping. No wire bar and no wasted cable.

• 8P8C plug · For solid or stranded wire Use standard modular crimping tool

Part No. Product No. 10 100 250 RJ45 (8P8C) .. \$1.75 158115CH \$1.58 \$1.42

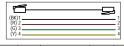
# Modular Telephone/Printer Sharing Cables (Gray)

- RJ11 6P2C/6P4C for telephone or network
- RJ11 6P6C for telephone or printer sharing
- RJ45 8P8C for telephone or modem-dial-up use

Style 1 – Reverse wiring for telephone systems



Style 2 – Straight wiring for networking/printer sharing



**Quantity SAVE** 

Low Cost Data

Phone Cables

	Conn.				Pricing	
Part No.	Style	Туре	Length	1	10	100
189940CH	1	RJ11-6P2C	7ft.	\$.99	\$.84	\$.63
196226CH	1	RJ11-6P4C	7ft.	1.49	1.15	.86
115553CH	2	RJ11-6P4C	7ft.	1.25	1.09	.89
115545CH	1	RJ11-6P4C	25ft.	2.29	2.09	1.85
201232CH	2	RJ11-6P4C <sup>†</sup>	35ft.	1.95	1.66	1.24
115588CH	1	RJ11-6P6C	7ft.	1.55	1.35	1.15
115617CH	2	RJ11-6P6C	7ft.	2.19	1.99	1.79
115676CH	2	RJ45-8P8C	7ft.	1.89	1.75	1.49

† Beige

# Surface Mount Boxes

### Category 5 and 5e

• RJ45 • 8P8C • 100MHz







 Size: 2.6"L x 3.2"W x 1.2"H 176073CH 213014CH

CAT 5e (except P/N 176073CH)

,		,		
Part No.	Description	1	10	10
176073CH	Single jack (beige)	\$5.75	\$5.23	\$4.7
213022CH	Single jack (white)	. <del>.\$6.95</del> 5.25	4.77	4.3
176081CH	Dual jack (beige)	9.95	8.46	6.3
213014CH	Dual jack (white)	. <del>\$9.9</del> 57.19	6.53	5.9

#### Color Code Legend New Sale Lower\$ QtySave

71

# **Nylon Cable Ties**

#### Standard

- · Cable ties made from UL approved Nylon 66
- Temperature range: -40°C to +85°C
- Flammability rating: UL 94V-2
- Color: clear (except P/N 182676CH)
- · Sold in increments of 100 or 1000

Part No.	Tensile Strength (lbs.)	Dimensions (L" x W")	100	1000
70560CH	18	3.1 x 0.10	. \$.025	\$.015
126543CH	18	4.0 x 0.10	02	.014
182676CH	18 <b>*</b>	4.75 x 0.13	03	.025
182650CH	18	5.5 x 0.13	035	.025
139150CH	18	8.0 x 0.10	06	.04
182668CH	18	8.0 x 0.13	075	.05
182684CH	18	8.0 x 0.18	036	.033
70906CH	40	5.8 x 0.10	035	.029
190756CH	40	10.0 x 0.14	12	.086
190772CH	40	11.0 x 0.19	10	.075
190764CH	40	13.0 x 0.14	10	.075

\* Black

#### Weather Resistant

#### 104141CH

- · Contain Carbonate A for greater resistance to ultra violet rays in outdoor use
- · Color: black
- · Sold in increments of 100 or 1000



145701CH

50

145701CH (closeup)

Part No.	Tensile Strength (lbs.)	Dimensions (L" x W")	100	1000
139125CH	18	3.0 x 0.90	\$.045	\$.029
104141CH	18	4.0 x 0.10	044	.029
104133CH	40	5.8 x 0.10	047	.031
190781CH	40	8.0 x 0.13	085	.065
190799CH	40	10.0 x 0.14	10	.09
190801CH	40	13.0 x 0.14	113	.088

#### Cable Tie Assortments

· Tensile strength: 18-50 lbs. 145701CH:

1000 pcs. (4"L); 10 colors

150412CH:

500 pcs. (4"L); 300 pcs. (8"L); 50 pcs. (11"L), 5 colors

Part No. Weight (lbs.) 10 1 145701CH 0.7 ..... \$9.49 \$8.49 \$7.39 150412CH 1.7 ..... 13.95 11.49

#### Cable Tie Tool

- · 2.5 5mm width (of cable)
- Tension adjustable
- · Twist to cut surplus tie end
- Spring return action

ivictai				
Part No.	Mfr. Cross Ref. No.	1	5	10
182297CH	0302TG-7 \$16	.99	\$15.99	\$14.99

# **Bushing Assembly Tool**

· For use with strain relief



#### Call for OEM pricing

#### Cable Tie Mounts and Cable Clamps

- Tie mount and screw tab cable clamps Material: UL approved nylon 66, 94V-2
- · Sold in increments of 10, 100 or 1000



182941CH/171213CH 71407CH/71394CH 71386CH



70594CH



182300CH/173761CH





182334CH/182342CH



173711CH/173729CH 173737CH/134754CH 173753CH

	Mfr. Cross	102334011/102342011		
Part No.	Reference No.	Description 10	100	1000
182941CH	0505HC-101S	4-way cable tie mount, self adhesive, .75"D\$.07	\$.055	\$.042
171213CH	HC-100	4-way cable tie mount, self adhesive, use w/ 0.1"W max., 0.5" square15	.13	.094
71407CH	HC-101	4-way cable tie mount, self adhesive, use w/ 0.1"W max., 0.9" square	.16	.13
71394CH	HC-102	4-way cable tie mount, self adhesive, use w/ 0.2"W max., 1.1" square23	.19	.14
71386CH	HC-103	4-way cable tie mount, self adhesive, use w/ 0.4"W max., 1.1" square25	.19	.13
70594CH	HC-0	4-way cable tie, screw type, use w/ 0.2"W max., 0.8"L x 0.4"W	.09	.05
182300CH	0510HC-2	Cable tie mount, 1/4" screw hole, 0.5"D	.15	.14
173761CH	HC-1	Cable tie, saddle type, 0.6"L x 0.4"W	.125	.075
182318CH	0519ATC-17	2-way adjustable tie mount, #6 flat head screw, 0.7"D	.24	.225
182376CH	0519ATC-22	2-way adjustable tie mount, #6 flat head screw, 0.9"D	.261	.222
182334CH	0520FC-1	Cable tie mount, self adhesive, 0.1"D	.15	.12
182342CH	0520FC-2	Cable tie mount, self adhesive, 0.2"D	.135	.122
173711CH	UC0	Cable clamp for 1/8" cable	.027	.018
173729CH	UC0.5	Cable clamp for 3/16" cable	.032	.019
173737CH	UC1	Cable clamp for 1/4" cable         .14           Cable clamp for 3/8" cable         .08	.09	.063
134754CH	BO375	Cable clamp for 3/8" cable	.029	.018
173753CH	UC3	Cable clamp for 1/2" cable	.041	.031

# **Nylon Cable ID Ties and Tabs**





135175CH

71061CH: Clear ID tab (0.98" x 0.31") 135175CH: Nylon cable tie ID marker

· Sold in increments of 10, 100 or 1000

Part No.	Size 10	100	1000
71061CH	4.0"L x 0.1"W\$.085	\$.08	\$.072
135175CH	2.0"L x 0.8"W x .02"T22	.11	.08

#### TECHFLEX-

#### **Cable Sleeve**

162157CH

182369CH

#### Clean Cut Expandable Sleeving

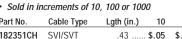
- · Flame resistant
- Applications: protecting wires, cables and hoses
- Operating temp.: -70°C to 125°C
- Sold in spools of 25'

Part No.	Product No.	Actual/Expanded Dia.	1 10
162157CH	CCPT2X	.250"/.440" \$15.9	5 \$14.95
162165CH	CCPT3X	.500"/.750" <b>17.9</b> !	5 14.49

# Round-Type Strain Relief Bushings

- · Material: **UL** approved nylon 66, 94V-2
- Color: black Used extensively
- for protecting cords and to prolong cord life





Part No.	Cable Type	Lgin (in.)	10	100	1000
182351CH	SVI/SVT	.43	. \$.05	\$.043	\$.04
182369CH	SJ/SJT; 16 AW0	G .58	18	.10	.085
182377CH	SJC; 18 AWG	.58	24	.22	.20

#### Pressure Sensitive Wire Marker

Easy release vinyl cloth markers feature a strong, pressure-sensitive adhesive, for long lasting bond on a wire or cable. Black non-smear legends on white background for

easy identification. · Convenient pocket-size booklet

· 10 sheets numbered 1 to 45 each sheet

Part No. Product No 216813CH TCWM-3 \$12.95 \$6.99

# Self Adhesive Wire Marker

- · 90 markers per number
- · Stick to wires for permanent identification
- Cloth tape label numbered 0-9
- · Used after or before terminal



#### 3M Tape Wire Marker

- · For marking wires with numerical sequence
- Self adhesive tapes numbered 0-9
- Size: (tape) 96"L x 0.25"W

Part No.	Description		10
159231CH	Numerical tape dispenser	\$30.95	\$27.95

# Cable Markers

- UL approved natural nylon
- · 10 piece minimum



Part No.	Size	10	100	1000
182705CH	1.5"L x .75"W	\$.10	\$.09	\$.08
182713CH	2.5"L x 1.76"W .		.23	.20

# Cable Clips, Tape and Heat Shrink Tubing

Cable Clips

These nail-in cable clips are designed for use with RG-6 cables.







295611CH

Part No.	Description	1 Pkg	10 Pkgs
295603CH	Single RG-6 cable clip, white	\$3.39	\$2.79
295591CH	Single RG-6 cable clip, black	3.19	2.65
295611CH	Dual RG-6 cable clip, white	3.65	2.99
295620CH	Dual RG-6 cable clip, black	3.65	2.99

# **Nail-In Cable Clips**





- · Material: impact resistant PE
- · With nails inserted
- Sold in increments of 100 or 1000



#### For telephone cords; white

Part No.	Mfr. Cross Ref. No.	W x H x H1 (in.)	100	1000
190828CH	NF1.2 😂	.24 x .21 x .15	\$.006	\$.005
190836CH	NF1.6 😂	.31 x .31 x .20	006	.005

Blue Part No. = Limited Quantity Available

#### For general round cables; gray

Part No.	Mfr. Cross Ref. No.	W x H x H1 (in.)	100	1000
190861CH	NCO.35N	.14 x .23 x .15	\$.022	\$.02
190887CH	NC1N	.24 x .35 x .26	05	.02
190895CH	NC2N	.31 x .45 x .34	015	.014
190908CH	NC3N	.39 x .53 x .41	016	.015

# 3M Super 33+ Electrical Tape

This tape provides flexibility and easy handling for all around performance. It combines PVC backing with excellent electrical insulating properties to provide primary electrical insulation for splices up to 600V and protective jacketing. Excellent resistance to UV rays, abrasion, moisture, copper corrosion, alkalis and acids, and is flame-retardant. Excellent all-weather performance in cold to 0°F (-18°C)

 UL listed and CSA certified • 0.75" x 66'

and is designed to perform in a continuous

temperature environment up to 220°F (105°C).

Part No.	Product No	. 1	10	25
285464CH	3M 06132	\$4.35	\$4.00	\$3.98

# Order Anytime, Day or Night

Our friendly sales department will take your order 24x7x365 by phone, fax, web or email.

Call for OEM pricing - we carry major manufacturers.

#### **Hook and Loop 3M Fastening System**

Nylon hooks mesh with pliable loops. 1" wide strip with adhesive backing sticks instantly to many surfaces.



Hook and loop: 1" x 15'

286897CH

Part No.	Product No.	1	5	10
286897CH	3M 06481 (white)	\$31.09	\$29.99	\$28.35
286900CH	3M 06488 (black)	. 31.55	30.49	28.75

### 3M Dual Lock Fastening System

3M™ Dual Lock™ reclosable fasteners have been used extensively in transportation, electronics, business equipment, machinery, medical, sign and display markets. When the mushroom-shaped



stems interlock, tensile strength is high enough to replace mechanical fasteners, yet you can readily open and close Dual Lock fasteners hundreds of times. High temperature and solvent resistant.

- Adhesive backing for strong bonds
   1" x 15'
- 5x stronger than conventional hook & loop fasteners
- · Audible snap assures secure closure

Part No.	Product No.	1	5	10
288438CH	3M 06463 (clear)	\$74.95	\$71.19	\$67.65

#### **Double-Sided Foam Tape** 3M

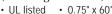
Used in a wide variety of applications, this tape features highshear acrylic adhesive and high temperature resistance. Adheres securely to any surface with its double-sided adhesive. 1/8" thick open-cell urethane foam carrier. Ideal for many manufacturing applications.

1/8" thick
 1" x 12'

Part No.	Product No.	1	5	10
285907CH	3M 4008	. \$14.89	\$11.35	\$10.55

### 3M Tartan 1710 Electrical Tape

3M™ Tartan™ 1710 vinyl insulating tape offers good resistance to abrasion, moisture, alkalis, acid, copper corrosion and varying weather conditions (including ultraviolet).



Flame retardant

Part No.	Product No.	1	10	25
285587CH	3M 49656	\$.95	\$.89	\$.86

#### **3M** Vinyl Electrical Tape

#### 5-pack Multi-Colored

3M #35 vinyl electrical color coding tape is used in phase identification, color coding leads, piping systems and



for marking safety areas. UL Listed, CSA Certified, and flame-retardant. Excellent all-weather performance in cold to 0°F (-18°C) or hot to 220°F (105°C). 5 rolls to a pack with colors blue, green, red, yellow, and white.

1/2" x 20'

Part No.	Product No	. 1	5	10	25
287806CH	3M 10457	\$7.95	\$6.72	\$6.10	\$5.36

### **Heat Shrink Tubing**

2:1 uniform shrink ratio

Color: pia	CK	182748CF	l
VC Heat	Shrink Tubing		
Shrink temp: 125°C		182772CH	
Sold in 10' and 100' increments		9	76
art No.	Dia. before (mm)	10 ft.	100
84721CH	.12" (3)	\$1.19	\$10
82730CH	16" (4)	1.39	12

Part No.	Dia. before (mm)	10 ft.	100 ft
184721CH	.12" (3)	\$1.19	\$10.50
182730CH	.16" (4)	1.39	12.50
182748CH	.20" (5)	1.45	13.00
182756CH	.24" (6)	1.49	13.50
182764CH	.31" (8)	1.79	16.00
182772CH	.43" (11)	2.80	19.00
182781CH	.59" (15)	3.50	30.00

#### PVC Heat Shrink Flat Film

- Shrink temperature: 175°C
- Temperature range: -45°C to +125°C
- \* Precut 39" length; sold as 1 increment



70631CH

Part No.	Flat	Unshrunk Cir. Dia.		1*	10 <b>*</b>	100 <b>*</b>
70631CH	5/16"	1/4"	1/8" \$	1.69	\$1.55	\$1.39
70623CH	1/2"	5/16"	3/16"	1.69	1.44	1.08
70666CH	13/16"	9/16"	1/4"	1.69	1.45	1.09

#### Polyolefin Heat Shrink Tubing

**Quantity SAVE** 

72063CH

- · Dielectric strength: 1300V
- Flame retardant
- Flexible
- Shrink temp.: 121°C
- Temperature range: -45°C to +125°C
- \* Precut 39" length; sold as 1 increment

Part No.	Before	After (Dia.)	1*	10*	100*
71327CH	1/16"	1/32"	\$.55	\$.46	\$.41
71870CH	3/32"	3/64"	.55	.45	.39
71280CH	1/8"	1/16"	.69	.59	.54
72063CH	1/4"	1/8"	.89	.76	.57
226245CH	3/8"	3/16"	1.09	.98	.88
216477CH	1/2"	1/4"	.99	.84	.63

#### **Heat Shrink Tubing** 3M 102-Piece Kit

3M™ FP-301 is a heat shrinkable flexible polyolefin tubing that offers an outstanding balance of electrical, physical and chemical



properties for a wide variety of industrial and military applications. Rated for 275°F (135°C) continuous operation. FP-301 tubing is typically used as a shrink-fit electrical insulation over cable splices and terminations. It is also used for lightweight wire harness covering, wire marking, wire bundling, component packaging and fire resistant covering.

- Assorted pre-shrink sizes: 3/16" (30 pieces); 1/4" (28 pieces); 3/8" (20 pieces); 1/2" (14 pieces); 3/4" (6 pieces); 1" (4 pieces)
- Pre-cut to 6" lengths

Part No. Description 10 285481CH Heat shrink kit \$56.95 \$53.70 \$50.99 \$48.45

See page 226 for Heat Guns.



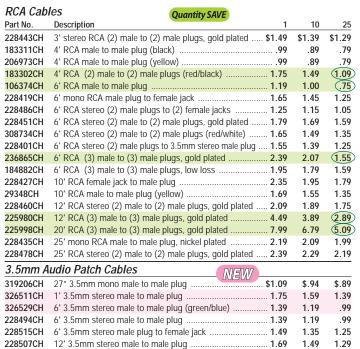


# Audio/Video, 3.5mm, RCA Cables and Adapters





# **Audio/Video Cables and Adapters**





#### Video/Audio Patch Cables

Part No.	Description 1	10	25
228216CH	3' stereo video patch cable, gold plated\$1.19	\$1.13	\$1.07
228574CH	25' stereo video patch cable, gold plated	6.29	5.65
228582CH	50' stereo video patch cable, gold plated 12.59	11.35	10.19

VCR Cable

1.35

220224011	U	316160	VOI	Cabic	w		
Blue Part N	lo.	= Limite	d Qua	antity .	Ava	ilable	

#### 228224CH 6' stereo VCR cable Q <del>\$2.39</del> \$1.89 \$1.70 \$1.54

# 12' 3.5mm stereo male plug to female jack ...... 1.65 S-VHS Cables and Adapters

Low-loss fully shielded Super-VHS cables, 4-contact mini DIN plus S-VHS cable and dual-RCA plug stereo cables.

- · Fully-molded color coded gold RCA connectors
- Flexible black PVC jacket
- Applications: home theaters, DSS receivers, Super-VHS VCRs, camcorders, and DVD players



228558CH/228566CH: 95% spiral wound shield S-VHS/audio conductors

Part No.	Description	1	10	25
228591CH	6' S-VHS video cable, gold plated	\$2.15	\$1.95	\$1.79
228558CH	6' S-VHS audio-video cable, gold plated	12.95	11.65	10.49
228566CH	12' S-VHS audio-video cable, gold plated	14.95	13.45	12.15
228603CH	12' S-VHS video cable, gold plated	. 2.65	2.35	2.10
228611CH	25' S-VHS video cable, gold plated	. 4.05	3.85	3.65
229809CH	S-video 4-pin mini DIN female to female jack	. 2.85	2.59	2.29
229391CH	S-video male plug to RCA video female jack	. 5.39	4.85	4.39
295881CH	S-video female jack to RCA video male plug	5.39	4.85	4.39
303351CH	S-video male plug to RCA video female jack	. 5.39	4.85	4.39

229809CH



RG-6 crimp-on weatherproof seal, brass .69

RG-6 crimp-on weatherproof sea ..............................55

# 3.5mm Female Jacks and Male Plugs



Part No.	Mfr. Cross Ref. No.	Description 1	10	100	1000
109495CH	PJ035PM	Mono F jack, 3.5mm hole size \$.45	\$.40	\$.36	\$.32
165729CH	PJ0354	Mono F jack, 3.5mm hole size69	.59	.49	.39
101151CH	PJ1035	Mono male plug, plastic49	.38	.35	.29
147344CH	PJ1035L	Mono male plug, plastic49	.38	.35	.29
231159CH	AP-336	Mono male plug, metal 1.25	1.19	1.09	.95
231175CH	AP-340	Stereo male plug, plastic55	.43	.36	.32
231167CH	AP-343	Stereo male plug, metal 1.79	1.60	1.45	1.30

JAMECO ValuePro	752 "F" Connectors/Adapters/Terminators											
A Jamess		m		E .	)							
EXCLUSIVE	Fig. 1	(C	Fig. 2 Fig.	3	'	Fig. 4	3					
1	3	6			200	3						
Fig. 5		Fi	g. 6 Fig. 7	Fig.	8		)					
Part No.	Product No		Description	1	10	50	100					
291581CH	200-016	1	Perma-seal, RG-59 coax	\$.69	\$.59	\$.55	\$.49					
291531CH	200-028	1	Perma-seal, RG-6 coax	69	.59	.55	.49					
291709CH	200-050	2	F-jack to jack (nickel)	65	.55	.475	.38					
291725CH	200-051	2	F-jack to jack (gold)	95	.85	.79	.75					
295371CH	200-053	3	F-panel mount jack to jack (nickel	65	.55	.475	.38					
295380CH	200-107	4	F-R/A jack to plug (nickel)	1.59	1.39	1.16	.95					
295398CH	200-103	5	F-jack to push-on plug (nickel)	85	.69	.627	.523					
295435CH	200-104	5	F-jack to push-on plug (gold)	1.15	.99	.95	.89					
295531CH	200-117	6	F-jack to 3.5mm mono plug (nickel)	1.65	1.35	1.13	.93					
295451CH	200-075	7	F-plug terminator	55	.45	.35	.25					
309657CH	200-045	8	RCA female to F male adapter	1.75	1.35	.97	.87					



.33

.59

.49 .39

.37

289924CH

314510CH

200-038

200-024

228638CH

229403CH

# Audio/Video, 3.5mm, RCA Cables and Adapters

# **Audio Adapters and Cables**

	CALE			•				
RCA Aud	io Adapters						All and	Amount
Part No.	Description 1	10	25	100	Control of the Contro	To the same of		and the same
228283CH	RCA female jack to mono 1/4" male plug\$.99	\$.89	\$.69	\$.55				The state of the s
228312CH	RCA male plug to 1/4" mono female jack 1.25	1.10	.79	.69	228283CH	228312CH	228267CH	159441CH
228267CH	RCA female to female jack coupler, gold plated95	.79	.55	.45	220203011	220312011	220207011	107441011
159441CH	RCA female to female jack coupler, metal 1.15	.99	.87	.65				
228259CH	RCA male to male plug adapter\$1.59.65	.59	.54	.49	coling and	4	Y-0-	400
228339CH	RCA F jack to 3.5mm mono M plug, gold plated \$1.49.75	.68	.62	.56	The same of the sa			Salar Property
228291CH	RCA F jack to 3.5mm mono M plug, nickel plated \$1.25.59	.54	.49	.45		(2)	8	
215458CH	RCA male plug to 3.5mm mono female jack \$:89.47	.42	.39	.35	228259CH	228339CH	228291CH	215458CH
RCA Y-Ca	ables							
196808CH	5' Y-cable 1/8" stereo F jack to (2) RCA M plugs \$.75	\$.30	\$.27	\$.26			_	
139037CH	5' Y-cable 1/8" stereo M plug to (2) RCA M plugs 2.25	1.99	1.79	1.61		4000		
228371CH	6" Y-cable (2) RCA M plugs to RCA F jack99	.89	.80	.72	40		<u> </u>	
228355CH	6" Y-cable RCA M plug to (2) RCA F jacks	1.15	1.06	.79				
228380CH	6" Y-cable (2) RCA F jacks to 3.5mm stereo plug 1.95		1.59	1.19	196808CH	13903	T 7CH	228371CH
3.5mm A	udio Adapters							
228275CH	3.5mm stereo female to female jack\$.55 \$.41	\$.37	\$.34	\$.31				
309665CH	3.5mm stereo F jack to 3.5mm mono M plug95	.78	.61	.52			100 m	
228304CH	3.5mm stereo M plug to (2) 1/4" stereo F jacks \$2.05.93	.84	.77	.70				
228339CH	3.5mm mono M plug to RCA F jack, gold plated \$1.49.75	.68	.62	.56				
228291CH	3.5mm mono M plug to RCA F jack, nickel plated \$1.25.59	.54	.49	.45	228355CH	22838	BOCH .	228275CH
215458CH	3.5mm mono female jack to RCA male plug \$.89 .47	.42	.39	.35				
3.5mm Y	'-Cables							
139037CH	5' Y-cable 1/8" stereo M plug to (2) RCA M plugs \$2.25	\$1.99	\$1.79	\$1.61	1			
228398CH	6" Y-cable (2) 3.5mm stereo female jacks to						3 Na.	
	3.5mm stereo male plugs	1.65	1.35	1.25	309665CH	2283	04CH	228398CH
228380CH	6" Y-cable (2) RCA F jacks to 3.5mm stereo M plug 1.95	1.76	1.59	1.19	33,333011	2200	= :=::	

# **Digital Audio Optical Cables and Adapters**

Connect your DVD, CD, Mini Disc, DAT, game console or other digital audio equipment for clear, full and richly detailed sound. For the ultimate listening experience, connect to your Dolby Digital® or DTS® home theater equipment.



- · Low-loss core provides low distortion & high signal-to-noise ratio
- · Clad reflecting layer prevents phase error and noise, achieving high-fidelity transmission effect
- · Corrosion-resistant, precise collar to ensure long lasting quality

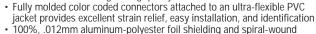
Cables		SALE		230607	СН
Part No.	Description		1	2	5
228654CH	3' TOSLINK-TOSLINK	-\$3.79	\$2.95	\$2.66	\$2.42
228689CH	3' TOSLINK-mini plug	<del>\$9.</del> 95	6.05	5.48	4.98
228662CH	6' TOSLINK-TOSLINK	<del>\$4.7</del> 5	3.89	3.54	3.22
228697CH	6' TOSLINK-mini plug	\$16.65	9.79	8.89	8.09
228671CH	12' TOSLINK-TOSLINK	<del>\$7.2</del> 9	5.99	5.42	4.93
228700CH	12' TOSLINK-mini plug	<del>\$23.</del> 29	13.79	12.55	11.41
Adapters					
230615CH	TOSLINK – mini plug adapter	\$2.79	\$2.09	\$1.88	\$1.71
230607CH	TOSLINK – TOSLINK coupler	<del>\$1.89</del>	1.65	1.51	1.37

# **Component Video and Audio Cables**

Component video cables connect the latest video equipment like DVD players equipped with component video output jacks to LCD or plasma televisions, projectors and other component video devices.

 Low-loss 75Ω oxygen-free copper center conductors and foam dielectric provide maximum signal transfer bandwidth for improved picture quality and performance

Corrosion resistant, precise 24k gold-plated connectors ensure long lasting quality



copper-braid shielding provides clear, noise-free, vivid picture quality

Part No.	Description	1	2	5
228620CH	6' component video RGB cable		\$8.49	\$6.37
228638CH	12' component video RGB cable 25' component video RGB cable **	23.7519.95	17.95	16.16
228646CH	25' component video RGB cable	3 <sup>3.95</sup> 25.95	23.36	21.02
229403CH	6' component video RGB and stereo audio cable-	<del>17.29</del> 14.95	13.46	12.11
229411CH	12' component video RGB and stereo audio cable \$5	33. <sup>25</sup> 25.95	23.36	21.02
229420CH	25' component video RGB and stereo audio cable \$4	47.5 <sup>5</sup> 29.95	25.46	19.09

#### RG-6/RG-59 75 $\Omega$ Patch Cables

				100 (10)	-
	Length	Part No.	Part No. 287152CH	287232CH	-
Туре	(ft.)	(Black)	(White)	1	5
RG-6	3	286977CH	287232CH	\$1.69	\$1.59
RG-59	3	85585CH		1.05	.95
RG-6	6	287101CH	287241CH	2.29	2.15
RG-6	12	287128CH	287259CH	3.69	3.49
RG-6	25	287152CH	287267CH	6.99	6.65
RG-6	50	287179CH	287275CH	13.49	12.75
RG-6	75	287208CH	287291CH	18.99	18.15
RG-6	75	297668CH		14.69	13.99
RG-6	100	287224CH	287304CH	24.99	23.75

02 - Red

#### Perma Seal RCA/BNC Connectors

Use the color code chart below to replace the "xx" when ordering

05 - Green

	<b>02CH</b> – <b>2921</b> is the RG-59 plug and <b>02</b>		tion for
Part No.	Description	1	10
2922xxCH	RCA RG-6 plug	\$1.59	\$1.49

Part No.	Description 1	10
2922xxCH	RCA RG-6 plug\$1.59	\$1.49
2921xxCH	RCA RG-59 plug 1.59	1.49
2924xxCH	BNC RG-6 plug 1.89	1.79
2923xxCH	BNC RG-59 plug 1.89	1.79

04 - Yellow



Part No.

281885CH

281869CH

281834CH

297019CH

297035CH

297297CH

297625CH

281789CH

281771CH

281762CH

281754CH

281746CH

281738CH

296892CH

296905CH

296930CH

296956CH

297001CH

297043CH

297060CH

297107CH

296913CH

297051CH

297158CH

297123CH

297140CH

296972CH

297537CH

302543CH

297115CH

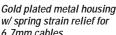
296981CH

297027CH

297271CH

# **RCA Plugs**

· High-quality plastic and metal housing RCA plugs



0.7IIIII Cables								
Part No.	Description	1	10	25	100			
229876CH	Black	\$1.89	\$1.69	\$1.55	\$1.39			
229868CH	Red	1.89	1.69	1.55	1.39			
229884CH	White	1.89	1.69	1.55	1.39			
230287CH	Yellow	1.89	1.69	1.55	1.39			

229876CH

229930CF

Plastic screw-on cover w/ integral cable protection							
229921CH	Black (5 pk) \$1.15	\$1.05	\$.91	\$.85			
229930CH	Red (5 pk) 1.15	1.05	.91	.85			
229913CH	White (5 pk) 1.19	1.09	.95	.89			
229892CH	Yellow (5 pk) 1.19	1.09	.95	.89			

#### **RCA Jacks**

· Standard RCA jacks for audio and video signals

Part No.	Fig.	Description	Dimensions	1 10	100	1000
220581CH	1	PCB mount, white	.44"W x .56"D x .48"H <b>\$.4</b>	5 \$.31	\$.28	\$.22
220556CH	1	PCB mount, red	.44"W x .56"D x .48"H4	5 .31	.28	.22
220572CH	1	PCB mount, black	.44"W x .56"D x .48"H4	5 .31	.28	.22
220564CH	1	PCB mount, yellow	.44"W x .56"D x .48"H4	5 .31	.28	.22
112475CH	1	PCB mount, red	.44"W x .58"D x .48"H3	9 .35	.31	.19
169501CH	2	PCB mount, black	.40"W x .85"D x .50"H3	9 .35	.32	.26
237016CH	3	PCB mnt., 2x3 grid, red/wht/yel	2.0"W x .45"D x 1.10"H8	9 .79	.69	.65
159484CH	4	Panel mount, black	.84"W x .38"H4	9 .39	.33	.24
172339CH	4	Panel mount, red	.84"W x .38"H4	9 .39	.31	.23
319231CH	5	Panel mount, 1x2 grid, red/wht	2.1"W x .48"D x .78"H7	9 .69	.65	.62
319249CH	5	Panel mount, 1x4 grid, red/blk	2.9"W x .48"D x .98"H 1.1	9 .99	.94	.89
319257CH	6	Panel mount, 2x2 grid, red/wht	2.0"W x .48"D x 1.38"H 1.1	9 .99	.94	.89
319265CH	6	Panel mount, 2x3 grid, red/wht	2.3"W x .48"D x 1.41"H 1.2	9 1.15	1.09	1.03
319071CH	6	Panel mount, 2x4 grid, red/blk	3.0"W x .49"D x 1.40"H <b>1.3</b>	9 1.19	1.13	1.07
		3 101 0 D				



See page 121 for Power Jacks and Plugs.

Switchcraft - For Highest Quality Connectors

### Switchcraft<sup>\*</sup>

# Audio Plugs and Jacks



Fig

2

3

4

5

7

8

9

10

11

12

13

12

12

12

9

14

15

16

17

12

15

18

17

19

20

20

11

21

20

Product No

780

750

41

125

142A

TR2A

850

297

280

267

250

12B

12A

13B

42A

70

121

151

170

226

14B

290

236

238

111

N111

240

228

112B

131

515

152B

11



3.5mm mono audio plug, metal

3.5mm mono audio plug, plastic

2.5mm mono audio jack, metal

1/4" stereo phone audio plug, metal

1/4" mono phone audio plug, metal

1/4" stereo phone audio plug, plastic

1/4" mono phone audio plug, plastic

1/4" mono phono audio jack, metal

1/4" mono phono audio jack, metal

1/4" mono phono audio jack, metal

1/4" mono phono audio plug, metal

1/4" mono phono audio jack, metal

1/4" mono phono audio jack, metal

1/4" mono phono audio jack, metal

1/4" stereo phono audio iack, metal

1/4" stereo phono audio jack, metal

1/4" stereo phono audio jack, metal

1/4" mono phono audio jack, plastic

1/4" mono phono audio jack, plastic

1/4" mono phono audio jack, black

1/4" phono audio iack, 3C, plastic

1/4" phono audio jack, 3C, plastic

1/4" jack cover

1/4" mono phono audio jack, RA, metal

1/4" stereo phono audio jack, RA, metal

1/4" stereo phono audio jack, RA, metal

1/4" mono phono audio jack, RA, metal

1/4" stereo phone audio jack

1/4" mono phone audio jack

2.5mm mono phono audio plug, plastic

Description

3.5mm audio iack

3.5mm mono jack, metal

3.5mm mono jack, plastic





14.1mm x 41.1mm x 5.3mm ID .. \$3.89

14.0mm x 41.5mm x 5.7mm ID ... 2.49

7.8mm x 5.9mm ...... 1.29

31 75mm x 10 3mmDia 5.19

21.03mmL x 9.52mmW x 12.7mmH .. 2.19

25.8mm x 6.35mm Dia. ..... 2.59

12.6mm ...... 2.09

73.7mm x 7.6mm ID ...... 4.59

73.7mm x 7.6mm ID ...... 3.15

73.7mm x 7.6mm ID ...... 4.25

73.7mm x 7.6mm ID ...... 2.55

14.7mm x 9.1mm Dia. ..... 1.49

12.8mm x 9.1mm Dia. ..... 1.39

31.7mm x 9.4mm Dia. ..... 1.79

30.6mm x 9.4mm Dia. ..... 4.15

15.9mm x 12.7mm Dia. ..... 1.75

84.8mm x 9.7mm ID ...... 6.79

63.5mm x 12.7mm Dia. ..... 7.15

57.15mm x 15.87mm Dia. ...... 5.99

69.4mm x 17.46mm Dia. ..... 7.89

46 4mm x 15 9mm Dia 3.89

31.6mm x 9.4mm Dia. ..... 4.19

57.15mm x 15.87mm Dia. ..... 5.75

42.9mm x 12.7mm Dia. ..... 6.19

46.4mm x 15.9mm Dia. ..... 4.89

41.28mm x 19.84mm Dia. ..... 5.55

34.8mm x 15.87mm Dia. ..... 1.45

34.8mm x 15.87mm Dia. ..... 1.69

78.3mm x 7.5mm ID ...... 2.99

42.1mm x 25.4mm Dia. ..... 4.25

34.8mm x 15.87mm Dia. ..... 1.45

63.5mm x 12.7mm Dia. ..... 10.49



10

\$2.94

2.17

1.22

4.54

2.04

2.28

1.94

3.82

2.82

3.22

2.39

1.39

1.29

1.43

3.76

1.60

5.48

5.87

4.65

5.99

3.70

3.81

4.78

4.83

4.19

1.31

1.54

2.72

3.25

1.31

5.48



100

\$2.45

1.81

1.02

4.01

1.83

2.12

1.73

2.91

2.36

2.69

1.94

1.24

1.15

1.26

3.22

1.48

4.44

4.74

4.25

5.32

2.93

3.30

4.89

4.16

4.11

3.85

1.21

1.43

2.55

2.98

1.21

6.43

5.02

25

\$2.69

1.99

1.07

4.08

1.93

2.15

1.80

3.19

2.58

2.95

2.13

1.32

1.19

1.33

3.37

1.52

4.93

5.22

4.30

5.58

3.23

3.42

5.02

4.38

4.43

3.90

1.25

1.47

2.59

3.02

1.25

6.88

5.08

















# Switchcraft<sup>\*</sup>

#### **DIN Connectors**

Part No.	Product No.	Fig.	Description	Dimensions 1	10	25	100
296948CH	61HA5F	1	5-pin DIN receptacle, panel mount	20mm x 17mm Dia \$3.29	\$2.65	\$2.43	\$2.35
296876CH	05BL5M	2	5-pin DIN plug, metal	59.2mm x 13.6mm Dia 4.29	3.94	3.51	3.34
296884CH	05GM5M	3	5-pin DIN plug, gray plastic	63.3mm x 13.6mm Dia 4.55	3.72	3.28	3.12







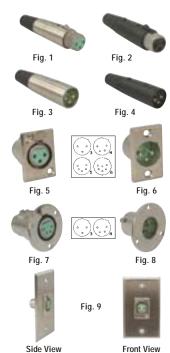
Switchcraft - For Highest Quality Connectors

Switchcraft is a leading supplier and manufacturer of electronic and electromechanical components for the audio, video, telecommunication, computer, medical, military, appliance, transportation and instrumentation industries. Their components include jacks, connectors, jack panels, plugs, jackfields, patch cords, power plugs, switches, EAC power receptacles and molded cable assemblies.

# Switchcraft<sup>\*</sup>

# Microphone (XLR) Connectors

Part No.	Product No.	Fig.	Description	Dimensions 1	10	25	100
277026CH	A3F	1	3-pin female, metal	82.5mm x 5.3mmDia \$4.49	\$3.99	\$3.58	\$3.26
277034CH	A3FB	2	3-pin female, black	82.0mm x 5.3mmDia 5.19	3.99	3.65	3.33
281560CH	A3M	3	3-pin male, metal	70.3mm x 5.3mmDia 3.79	3.17	2.83	2.58
281578CH	A3MB	4	3-pin male, black	70.3mm x 6.1mmDia 4.59	3.53	3.24	2.95
297422CH	C3F	7	3-pin female, metal, panel mount	36.9mm x 36.5mmDia 7.85	7.04	6.22	5.63
297431CH	C3M	8	3-pin male, metal, panel mount	30.2mm x 36.3mmDia 5.65	4.28	3.97	3.92
281640CH	D3F	5	3-pin female, metal, panel mount	27mmW x 36.3mmH x 30.6mmD 5.89	4.50	4.13	3.75
281658CH	D3M	6	3-pin male, metal, panel mount	27mmW x 36.3mmH x 30.6mmD 4.35	3.33	3.06	2.78
281720CH	J3FS	9	3-pin female, wall plate	69.9mmW x 114.3mmH 23.19	20.88	18.79	16.82
281586CH	A4F	1	4-pin female, metal	82.0mm x 5.5mmDia 7.25	5.56	5.09	4.64
281594CH	A4M	3	4-pin male, metal	71.2mm x 4.8mmDia 4.59	4.08	3.68	3.32
297449CH	C4F	7	4-pin female, metal, panel mount	36.9mm x 36.5mmDia 12.15	9.11	8.35	7.97
297457CH	C4M	8	4-pin male, metal, panel mount	30.2mm x 36.3mmDia 7.19	5.48	5.02	4.82
281666CH	D4F	5	4-pin female, metal, panel mount	27mmW x 36.3mmH x 30.6mmD 8.35	6.38	5.85	5.32
281674CH	D4M	6	4-pin male, metal, panel mount	27mmW x 36.3mmH x 30.6mmD 5.19	3.96	3.63	3.31
281607CH	A5F	1	5-pin female, metal	82.0mm x 4.7mmDia 12.09	9.06	8.31	7.55
281615CH	A5M	3	5-pin male, metal	70.2mm x 5.3mmDia 9.35	7.18	6.58	5.92
281682CH	D5F	5	5-pin female, metal, panel mount	27mmW x 36.3mmH x 30.6mmD 13.39	10.32	9.46	8.55
281691CH	D5M	6	5-pin male, metal, panel mount	27mmW x 36.3mmH x 30.6mmD <b>9.25</b>	7.01	6.43	5.84
281623CH	A6F	1	6-pin female, metal	80.2mm x 4.6mmDia 10.79	10.25	9.45	8.32
281631CH	A6M	3	6-pin male, metal	70.5mm x 4.5mmDia 9.55	8.78	8.15	7.51
281703CH	D6F	5	6-pin female, metal, panel mount	27mmW x 36.3mmH x 30.6mmD 18.95	14.19	13.02	11.83
281711CH	D6M	6	6-pin male, metal, panel mount	27mmW x 36.3mmH x 30.6mmD 12.35	11.80	9.49	8.30



### Switchcraft<sup>\*</sup>

# **RCA Plugs and Jacks**

Part No.	Product No.	Fig.	Description	Dimensions	10	25	100
281826CH	3503	10	RCA phono audio jack, metal	43.2mm x 7.6mm ID \$2.50	\$1.97	\$1.81	\$1.64
281818CH	3502A	11	RCA phono audio plug, nickel	42.4mm x 7.3mm ID 1.8	1.66	1.54	1.40
281800CH	3502	12	RCA mono phono audio plug, metal	33.8mmL x 5.0mm ID 1.79	1.37	1.21	1.10
281797CH	3501FP	13	RCA phono audio jack, metal	16.3mm x 6.0mm Dia 1.29	1.00	.91	.84



#### Switchcraft<sup>\*</sup>

# **Power Plugs and Jacks**

Part No.	Product No.	Fig.	Description	Dimensions 1	10	25	100
281842CH	712A	14	2.1mm DC power jack, panel mount	15.8mm x 7.5mm Dia \$2.05	\$1.88	\$1.76	\$1.65
281851CH	722A	14	2.5mm DC power jack, panel mount	15.1mm x 7.5mm Dia 2.09	1.94	1.75	1.65
297588CH	RAPC722	16	2.0mm x 5.5mm DC pwr. jack, RA	10.9mmH x 8.8mmW x 14.3mmD85	.77	.71	.68
297561CH	PC722A	15	2.0mm x 5.5mm DC power jack, metal	23.3mm x 11.0mm Dia 2.35	2.09	1.93	1.91
297570CH	RAPC712	16	2.5mm x 5.5mm DC pwr. jack, RA	10.9mmH x 8.8mmW x 14.3mmD86	.77	.71	.68
297553CH	PC712A	15	2.5mm x 5.5mm DC power jack, metal	23.3mm x 11.0mm Dia 2.09	1.99	1.95	1.90
297529CH	L712A	17	2.5mm x 5.5mm DC power jack, metal	23.3mm x 11.0mm Dia 3.75	2.85	2.64	2.61
281877CH	760	18	2.5mm x 5.5mm DC power plug, plastic	9.6mm x 36.3mm x 5.7mm Dia <b>2.15</b>	1.94	1.76	1.59
297617CH	S760	18	2.1mm x 5.5mm DC power plug, plastic	25.4mm x 9.5mm Dia 1.99	1.94	1.80	1.67
297289CH	761K	19	2.5mm x 5.5mm DC power plug, plastic	25.4mm x 9.5mm Dia 3.99	3.03	2.81	2.79







#### AMP - Biggest Name in Quality Connectors

Solder-Cup Contacts

· Intermateable with other D-sub connectors

· Preloaded duplex-plated solder-cup contacts

Shields offer full EMI shielding and ESD insulation

One-piece 94V-0 rated plastic insert

· Current rating: 1.2A to 3.0A

#### Color Code Legend Sale Lower\$ QtySave

#### D-Subminiature Connectors

- Dielectric withstanding voltage: 1000VAC (one minute) Insulation resistance:  $5000M\Omega$
- Nylon, flame retardant, 94V-0 rated, glass filled
- · UL/CSA recognized and certified · Low-cost, high-performance, precision formed crimp contacts
- Standard mounting method with 0.120" diameter mounting holes

#### Crimp-Type Contacts

- · Current rating: 1.2A to 3.7A
- Intermateable with any size 20 D-sub dimensionally complying with MIL-C-24308
- · Crimp snap-in contacts allows loading of only the number of contacts being used

Product No. Cont. Description

15

25

37

50

15

25

37

Product No. Cont. Description

15

25

37 Plug

15

37

50

9

15

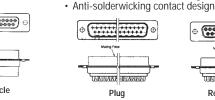
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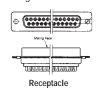
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Zinc-Plated Shell

205204-1

205206-1

205208-1

205204-3

205206-2

207464-1

205210-2

Zinc-Plated Shell

Part No.

222640CH

222658CH

222666CH

222674CH 205210-1

222682CH 205212-1

222691CH 205203-1

222703CH 205205-1

222711CH 205207-1

222720CH 205209-1

**222738CH** 205211-1

Tin-Plated Shell

Part No.

222754CH

222762CH

222771CH

222789CH

222797CH 205204-4

222800CH 205206-3

222818CH 207464-2

222826CH 205210-3

222834CH 205212-3

222842CH 205203-3

222914CH 205205-2

222922CH 207463-1

222931CH 205209-2

222949CH 205211-2

\* With grounding indents

D-Sub Pin Insertion/

Extraction Tools



Plug ...... \$.95

Plug ...... 1.39

Plug ...... 1.05

Plug ...... 1.69

Plug ...... 2.09

Receptacle 1.10

Receptacle 1.25

Receptacle 1.05

Receptacle 1.69

Receptacle 2.09

Plug ..... \$1.29 \$1.15

...... 1.69

Plug ...... 1.49

Plug\* ...... .83

Plug\* ...... .99

Plug\* ...... .88

Plug\* ..... 1.69

Plug\* ..... 1.79

Receptacle .69

Receptacle .88

Receptacle .99

Receptacle 1.19

Receptacle 2.09



1 10

\$.86

1.24

1.49

1.79

1.10

95 .71

1.49 1.10

1.79

222922CH

\$.85

.95

.61

1.10

.65

.58

.52

.58

.68

.78

1.35

10 100

1.29

.80

1.49

.75 .55

.89

1.49 1.12

1.59 1.19

.59

.78

.89

1.05

1.79

18.99

19094CH

17.99

.92

\$.64

.92

.82

1.10

1.35

.77

.82





					, , , , , , ,	
Part No.	Product No.	Cont.	Description	1	10	100
222957CH	747904-4	9	Plug \$1.	.89	\$1.59	\$1.32
222965CH	747908-4	15	Plug 2.	65	2.19	1.75
222973CH	747912-4	25	Plug 3.	69	3.10	2.49
222981CH	747916-4	37	Plug 5.	45	4.56	3.79
223036CH	747905-4	9	Receptacle 2.	.65	2.23	1.76

223044CH 747913-4 Tin-Plated Shell





Receptacle 4.75 3.99

Part No.	Product No.	Cont.	Description	1 10	100			
222990CH	747904-2	9	Plug \$1.6	9 \$1.55	\$1.15			
223001CH	747908-2	15	Plug 2.7	9 2.49	1.85			
223010CH	747912-2	25	Plug 3.2	9 2.95	2.19			
223028CH	747916-2	37	Plug 5.2	9 4.29	3.49			
223052CH	747905-2	9	Receptacle 2.3	5 2.09	1.55			
223061CH	747909-2	15	Receptacle 3.4	5 2.99	2.19			
223079CH	747913-2	25	Receptacle 4.0	9 3.69	2.72			
223087CH	747917-2	37	Receptacle 6.6	5 5.69	4.19			
Distribution in Co.								

### Plastic Hoods for **D-Sub Connectors**

230914CH

- · Cable clamp type: clam shell
- · Cable exit angle: straight
- Standard clam shell length
- · Body material, cable support gate, and cable clamp: thermoplastic
- Screw material: steel
- Screw plating: zinc

	5				
Part No.	Product No.	Positions	1	10	100
230893CH	205729-1	9 \$2	.25	\$1.85	\$1.46
230906CH	205730-1	15 <b>2</b>	.35	2.10	1.85
230914CH	205718-1	25 <b>2</b>	.05	1.69	1.32
230922CH	205731-1	37 <b>2</b>	.99	2.63	2.29
230931CH	205732-1	50 <b>3</b>	.19	2.65	2.19



- · Pin material: brass; socket material: phosphor bronze
- Contact plating
- \*A: Select gold flash over nickel on entire contact, with additional gold (.000030) on mating end; \*B: Duplex – gold (.000030) on mating end, tin-lead on termination end, with entire contact nickel underplated; \*C: gold flash over nickel on entire contact; \*D: gold flash on mating end, tin-lead on termination end, with entire
- contact nickel underplated For use with AMP D-sub connectors (see left)
- · Prepackaged: order in increments of 10, 100 or 1000







#### Male Crimp Contacts

Part No.	Product No.	Desc.	AWG	10	100	1000
223095CH	1-66507-0	1C	28-24	\$.24	\$.17	\$.12
223124CH	66682-4	1A	28-24	22	.16	.14
223108CH	66507-9	1A	28-24	18	.12	.09
223132CH	745254-7	1C	26-22	25	.18	.128
223141CH	745254-6	1A	26-22	25	.18	.13
223159CH	1-745254-6	1B	26-22	25	.18	.13
223167CH	1-66506-0	1C	24-20	16	.15	.12
223175CH	205202-7	3C	24-20	24	.17	.14
223183CH	5-66506-9	1D	24-20	21	.15	.13
223191CH	66506-9	1A	24-20	16	.15	.10
223204CH	5-66506-7	1B	24-20	24	.17	.12
223212CH	745229-4	3A	22-18	26	.24	.19

Female (	Quar	ntity SAV	/E			
Part No.	Product No.	Desc.*	AWG	10	100	1000
223221CH	1-66505-0	2C	28-24	\$.18	\$.12	\$.09
223239CH	66683-4	2A	28-24	19	.17	.15
223247CH	745253-6	2A	26-22	27	.20	.14
223255CH	1-66504-0	2C	24-20	17	.15	.11
223263CH	205201-7	4C	24-20	26	.214	.16
223271CH	5-66504-7	2D	24-20	16	.12	.10
223280CH	205201-5	4A	24-20	18	.147	.11
223298CH	66504-9	2A	24-20	17	.15	.13
223301CH	6-66504-0	2B	24-20	26	.214	.16

#### Male Solder Contact

Part No.	Product No.	Desc.*	AWG	10	100	1000
234982CH	66570-3	5A	28-24	\$.22	\$.12	\$.11
Female:	Solder Cou	ntact				

Part No.	Product No.	Desc.*	AWG 10	100	1000
223319CH	66569-3	6A	18 (max.) <b>\$.22</b> 5	\$.18	\$.162

www.Jameco.com

Our enhanced website offers more products. Find it quickly and order it easily!

#### 19094CH/223335CH: Plastic body; metal tips 223327CH: Handle with .050" hex wrench & exchangeable tips 223327CH Part No. Description 10 100 19094CH Red/white plastic body \$2.79 \$2.49 \$2.15 223335CH AMP# 91067-2 ..... 4.45 3.95 3.75

AMP# 91285-1 ..... 19.99

223327CH



# D-Subminiature Connectors, Hardware & Hoods

# **D-Sub Connector Hoods**



15085CH Plastic



· Use with D-sub solder cup and housing style connectors (hardware included)

EXCLUSIVE

D Series: plastic hood with strain relief (gray) MD Series: metal coated plastic hood w/ strain relief MH Series: die-cast metal hood with strain relief

	Mtr. Cross				
Part No.	Ref. No.	Connector 1	10	100	1000
15721CH	DB9H	9-pin <b>\$.49</b>	\$.45	\$.39	\$.35
25620CH	MDB9H	9-pin <b>59</b>	.49	.39	.35
147740CH	MHDB9	9-pin <b>1.45</b>	1.29	1.15	.99
15018CH	DA15H	15-pin <b>49</b>	.45	.40	.35
25566CH	MDA15H	15-pin <b>.56</b>	.44	.36	.31
15085CH	DB25H	25-pin45	.39	.35	.32
25603CH	MDB25H	25-pin <b>.59</b>	.49	.42	.35
15106CH	MHDB25	25-pin <b>1.39</b>	1.19	1.09	.89
15456CH	DC37H	37-pin <b>59</b>	.55	.45	.39
25611CH	MDC37H	37-pin <b>75</b>	.69	.59	.53
15659CH	DD50H	50-pin <b>.99</b>	.85	.75	.65

### 25-Pin Dual Plastic Hood

Designed for custom applications requiring two D-sub connectors. Applications include

custom jumper boxes and interconnects.



Part No.	Description 1	10	100	500
34091CH	25-pin, plastic dual \$.95	\$.85	\$.75	\$.59

# 4-40 Screw Hardware for D-Subminiature Connectors

4-40 x . 187" Jack Screws and Standoffs







125014CH

#### \* Prepackaged: order in increments of 10, 100 or 1000

Part No.	Description 1	10	100	1000
196293CH	.252"L jack screw *	\$.21	\$.12	\$.08
169931CH	.275"L jack screw *	.15	.13	.11
172603CH	.315"L jack screw *	.14	.11	.084
102816CH	.435"L jack screw49	.46	.41	.37
108986CH	.515"L jack screw55	.50	.45	.40
125014CH	4-40 x 1.65"L plastic			
	beige thumbscrew39	.35	.32	.25
175636CH	.187"L standoff *	.21	.15	.10
102795CH	.236"L (6mm) standoff *	.21	.15	.10

#### 4-40 Screw Sets



102808CH: 4-40 screw (.30"L) and retainer set 16547CH: 4-40 x .187" jack screw (.31"L thread), washer, lock washer, and nut set

· Prepackaged: order in increments of 10, 100 or 1000

Part No.	Description 10	100	1000
102808CH	Screw/retainer set \$.39	\$.35	\$.30
16547CH	Screw/nut set31	.25	.17

#### JAMECO ValuePro

#### **D-Subminiature Connectors**



· Metal shells are tin-plated for improved EMI/RFI shielding

 Insulation resistance: minimum 1000MΩ at 500VDC · Dielectric withstanding voltage: 1000V (one minute)

- · High temperature thermoplastic
- · Insulation material: PBT

#### Right Angle PC Mount .318" Set Back



- · Short style
- · Lead length: .138"
- · Lead spacing: .115' · Shell: metal

· Current rating: 1A



15149CH

	Mfr. Cross						
Part No.	Ref. No.	Cont.	Gender	1	10	100	500
104942CH	DB9P318	9	M \$	.55	\$.50	\$.45	\$.38
104951CH	DB9S318	9	F	.60	.55	.49	.45
71124CH	DA15P318	15	М	.69	.59	.55	.49
77956CH	DA15S318	15	F	.79	.69	.65	.45
168743CH	HDDB15S318	<b>*</b> 15	М	.49	.42	.34	.31
71466CH	HDDB15S318	<b>*</b> 15	F	.59	.53	.48	.39
15149CH	DB25P318	25	Μ	.79	.65	.55	.45
15181CH	DB25S318	25	F	.89	.79	.72	.65
265439CH	DSUB-25F	25	F	.85	.73	.62	.48
71706CH	DC37P318	37	М	.99	.89	.80	.66
78182CH	DC37S318	37	F 1	.15	.95	.69	.49

#### \*High Density IAMECO Value

#### .590" Set Back



- · Lead length: .178' · Lead spacing: .104'
- Current rating: 1A
- Shell: metal

· Long style Mfr. Cross



- 4	-	
	1049770	

Part No.	Ref. No.	Cont.	Gender	1	10	10
104969CH	DB9P590	9	М	\$.99	\$.83	\$.7
104977CH	DB9S590	9	F	89	.79	.7
104993CH	DA15S590	15	F	99	.85	.5
105005CH	DB25P590	25	М	99	.89	.7
105013CH	DB25S590	25	F	1.25	1.12	.9

# Other Manufacturers — Limited Great Deals

189624CH	DB25P590 <sup>†</sup>	25	M <sup>\$:49</sup> \$.29	\$.26	\$.24
† Without boa	ard tabs				

# IDC Ribbon Cable Connectors

- Current rating: 1 amp
- Insulation material: glass-filled polyester
- Temp range:-55°C to +120°C
- Contact material: phosphor bronze
   12431CH · Terminates with standard D-type connectors
- · Shell: MD: metal; CD: plastic (see mfr. cross ref. no.) Mfr. Cross

Part No.	Ref. No.	Cont.	Gender	1	10	100	
109225CH	MDB9P <sup>†</sup>	9	M \$	1.35	\$1.25	\$1.09	
12503CH	CDB9P	9	M 2	2.49	1.79	1.59	
109217CH	MDB9S <sup>†</sup>	9	F '	1.49	1.19	1.05	
12520CH	CDB9S	9	F 2	2.59	2.35	2.09	
117381CH	MDA15P	15	M 1	1.55	1.25	.69	
12298CH	CDA15P	15	M ′	1.55	1.25	.75	
116011CH	MDA15S	15	F ′	1.55	1.25	.85	
12319CH	CDA15S	15	F ′	1.69	1.35	.79	
115983CH	MDB25P	25	M ′	1.85	1.69	1.45	
12335CH	CDB25P	25	M ′	1.89	1.69	1.29	
115975CH	MDB25S	25	F ′	1.85	1.65	1.39	
12431CH	CDB25S	25	F '	1.95	1.79	1.39	
115991CH	MDC37P	37	M 2	2.39	2.15	1.55	
12466CH	CDC37P	37	M 3	3.09	2.79	2.49	
116003CH	MDC37S	37	F 2	2.95	2.69	2.42	
12482CH	CDC37S	37	F \$	3.49	2.99	2.25	
† Require flat cable w/ .0625" centers							

#### JAMECO ValuePro Crimp-Type Connectors & Pins

 Connectors: metal shell; removable male/female







crimp pins Male/female pins: gold

19094CH plated contact: tinned crimp tail

Insertion/extraction tool: exchangeable tips Use 99442CH, pg 229 to crimp 43377CH, 43369CH

000 , , ,	12011, pg 22, to 01111p 10	0,,0,	.,	,,		
* Prepackaged: order in increments of 10, 100 or 1000						
Part No.	Description 1	10	100	1000		
73189CH	DB9 M housing \$.49	\$.39	\$.31	\$.19		
73197CH	DB9 F housing	.39	.31	.19		
73200CH	DA15 M housing	.53	.48	.43		
73218CH	DA15 F housing62	.56	.50	.44		
180881CH	HDDB15 M housing* 1.09	.98	.78	.58		
180890CH	HDDB15 F housing*89	.79	.72	.65		
38789CH	DB25 M housing	.44	.36	.21		
38771CH	DB25 F housing	.44	.31	.21		
43377CH	M crimp pin $*$	.10	.09	.08		
43369CH	F crimp pin *	.08	.07	.06		
185421CH	M crimp pin (180881CH) *	.055	.045	.04		
185412CH	F crimp pin (180890CH) *	.055	.05	.04		

19094CH above pins (HT101) ..... 2.79 2.49 2.15 \* High Density

#### JAMECO ValuePro Solder-Cup Connectors

Insert./extract. tool for

 Compatible with 24 AWG communications and 22 AWG solid cable, pg 88





Part No. Contacts Gender 10 100 1000 15747CH M .... \$.56 \$.44 \$.36 \$.24 15771CH 9 F ...... .59 .49 .44 .31 15077CH 15HD\* M ........69 59 49 .31 164822CH 15HD3 .69 .59 .39 M .......55 15034CH 15 .49 .42 .29 15051CH 15 F ...... .59 .49 .39 .24 M .......99 .79 .71 15114CH 25 .89 15157CH 25 F ...... .89 .80 .69 .61 26HD 58 203799CH M ...... .65 .52 49 26HD F ...........75 .68 .61 .58 203781CH 15472CH 37 .85 .79 .49 15499CH 37 F ..... 1.19 1.05 .85 .49 15675CH .99 50 1.49 1.35 M .... 1.65 15691CH F ..... 1.79 1.39 1.32 1.19

High Density

#### Other Manufacturers — Limited Great Deals 15156CH F ..... \$.79 \$.72 \$.62 \$.55

#### · Non-removable contacts

125 Vrms

· Current rating: 5 amps

 Operating temperature: -65°F to +250°F





Straight PC Mount Connectors



	IVITI. Cross	-				
Part No.	Ref. No.	Cont.	Gender	1	10	100
111691CH	DB9PPCB	9	Μ	\$.55	\$.45	\$.32
15780CH	DB9SPCB	9	F	55	.45	.32
176760CH	DA15PPCB	15	Μ	49	.44	.39
176751CH	DA15SPCB	15	F	49	.42	.31
15122CH	DB25PPCB	25	Μ	65	.59	.52
15165CH	DB25SPCB	25	F	74	.67	.39
180021CH	DC37SPCB	37	F	85	72	54

# .062" (1.57mm) Power Connectors

- · Passive friction lock
- Polarized housing assures proper mating mole
- Voltage: 250V Current: 5.0A
- Dielectric withstanding voltage: 1500VAC<sub>RMS</sub>
- · Contact retention to housing: 20 lbs. minimum
- · Housing: nylon; UL94V-2
- Temperature range: -40°C to +105°C

#### **Plugs**









Without Mounting Ears	Without	Mounting	Ears
-----------------------	---------	----------	------

Part No.	Product No.	Circuits	1	10	100
224477CH	03-06-2011*	1	. \$.29	\$.16	\$.13
224485CH	03-06-2023*	2	30	.18	.15
224493CH	03-06-2032*	3	31	.19	.16
224506CH	03-06-2042*	4	39	.27	.24
224514CH	03-06-2044**	4	39	.27	.24
230244CH	03-06-2055*	5	47	.26	.24
224522CH	03-06-2061**	6	45	.28	.25
224531CH	03-06-2092**	9	49	.27	.24
224549CH	03-06-2122**	12	52	.30	.25

\*In-line \*\*Grid

#### With Mounting Ears

Part No.	Product No.	Circuits	1	10	100
229948CH	03-06-2024*	2	\$.30	\$.17	\$.14
229964CH	03-06-2033*	3	35	.18	.15
229981CH	03-06-2041*	4	47	.27	.24
230009CH	03-06-2043**	4	47	.26	.24
230025CH	03-06-2054*	5	47	.26	.24
230041CH	03-06-2062**	6	47	.26	.24
230068CH	03-06-2091**	9	47	.26	.24
230084CH	03-06-2121**	12	55	.29	.26

\*\*Grid \*In-line

#### Receptacles







#### 230252CH 229956CH Without Mounting Ears

Part No.	Product No.	Circuits	1	10	100
224397CH	03-06-1011*	1	\$.29	\$.16	\$.13
224400CH	03-06-1023*	2	30	.18	.15
224418CH	03-06-1032*	3	31	.19	.16
224426CH	03-06-1042*	4	39	.27	.24
224434CH	03-06-1044**	4	39	.27	.24
230252CH	03-06-1056*	5	55	.35	.31
224442CH	03-06-1062**	6	45	.28	.25
224451CH	03-06-1092**	9	49	.27	.24
224469CH	03-06-1122**	12	52	.30	.25

\*In-line \*\*Grid

#### With Mounting Ears

	3				
Part No.	Product No.	Circuits	1	10	100
229956CH	03-06-1022*	2	\$.31	\$.16	\$.14
229972CH	03-06-1038*	3	32	.17	.15
229999CH	03-06-1041*	4	49	.26	.23
230017CH	03-06-1043**	4	49	.26	.23
230033CH	03-06-1055*	5	59	.49	.36
230050CH	03-06-1061**	6	47	.26	.23
230076CH	03-06-1091**	9	47	.26	.23
230092CH	03-06-1121**	12	49	.33	.30
*In line **	Crid				

# .093" (2.36mm) Power Connectors

- Passive friction lock
- · Voltage: 250V
- · Current: 12A per circuit
- Dielectric withstanding voltage: 1500VAC<sub>RMS</sub>
- Contact retention to housing: 20 lbs. minimum
- · Housing: nylon; UL94V-2
- Temperature range: -40°C to +105°C

#### **Plugs**





230261CH



230181CH

#### Without Mounting Ears

Part No.	Product No.	Circuits	1	10	100
224063CH	03-09-2011*	1	. \$.29	\$.18	\$.12
224071CH	03-09-2022*	2	30	.25	.18
224080CH	03-09-2032*	3	41	.32	.21
224098CH	03-09-2042*	4	45	.22	.20
229825CH	03-09-2049**	4	45	.34	.26
230261CH	03-09-2057*	5	55	.29	.26
224101CH	03-09-2062**	6	49	.39	.29
224119CH	03-09-2092**	9	55	.35	.30
224127CH	03-09-2121**	12	69	.59	.39

\*In-line \*\*Grid

#### With Mounting Ears

Part No.	Product No.	Circuits	1	10	100
230105CH	03-09-2021*	2	\$.35	\$.18	\$.16
230121CH	03-09-2031*	3	42	.22	.20
230148CH	03-09-2041*	4	42	.22	.20
230164CH	03-09-2040**	4	64	.59	.35
230181CH	03-09-2061**	6	35	.33	.25
230201CH	03-09-2091**	9	65	.35	.31
230228CH	03-09-2122**	12	71	.38	.35
40 0 44					

\*In-line \*\*Grid

#### Receptacles







#### Without Mounting Ears

Part No.	Product No.	Circuits	1	10	100
224135CH	03-09-1011*	1	\$.29	\$.09	\$.08
224143CH	03-09-1022*	2	30	.25	.18
224151CH	03-09-1032*	3	44	.25	.16
224160CH	03-09-1042*	4	46	.25	.22
229817CH	03-09-1049**	4	46	.33	.25
230279CH	03-09-1057*	5	59	.49	.32
224178CH	03-09-1064**	6	49	.23	.20
224186CH	03-09-1094**	9	69	.59	.39
224194CH	03-09-1126**	12	75	.49	.39

\*In-line \*\*Grid

#### With Mounting Ears

Part No.	Product No.	Circuits	- 1	10	100
230113CH	03-09-1027*	2	\$.35	\$.17	\$.15
230130CH	03-09-1081*	3	48	.24	.22
230156CH	03-09-1041*	4	40	.23	.17
230172CH	03-09-1040**	4	48	.25	.23
230199CH	03-09-1061**	6	49	.26	.25
230210CH	03-09-1091**	9	62	.33	.30
230236CH	03-09-1125**	12	62	.33	.30
*In-line **	Grid				



# .062" (1.57mm) Contacts

- Durability: tin 25 mating/un-mating cycles max.
- Contact: brass or phosphor bronze
- · Tin plating
- Temperature range: -40°C to +105°C
- Prepackaged: order in increments of 10, 100 or 1000

#### Crimp-Type Contacts



Part No.	Product No.	Genaer	AWG	10	100	1000
224565CH	02-06-2103	M	18-24	\$.18	\$.057	\$.038
224581CH	02-06-2132	M	24-30	18	.057	.038
224557CH	02-06-1103	F	18-24	18	.057	.038
224573CH	02-06-1132	F	24-30	18	.057	.038

#### Solder-Tail Contacts

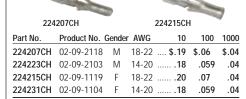




### .093" (2.36mm) Contacts

- Durability: tin 25 mating/un-mating cycles max.
- · Contact: brass or phosphor bronze
- Tin plating
- Temperature range: -40°C to +105°C
- · Prepackaged: order in increments of 10, 100 or 1000

#### Crimp-Type Contacts



#### Solder-Tail Contacts



#### **Hand Crimp Tools**

This tool is designed to crimp terminals, strip and cut wires, and cut bolts. For Molex



crimp pin terminals with .062", .093" diameters and KK® series on opposite page.

**308030CH:** Cuts & strips 14-24 AWG wires 227491CH: Cuts & strips 18-30 AWG wires

	Part No.	Product No.	Lengin	COIOF	
	308030CH	W-HT-1919	8.3"L	Red \$14.99	\$13.99
l	227491CH	W-HT-1921	8.3"L	Yellow 14.99	13.99



# Power Connectors and Headers

Molex - The Top Name in Power Connectors



#### .062" Power Connector Kit

This assortment kit contains mating sets of housings and pins.

- · Voltage: 250VAC · Current: 5A
- Temperature range: -40°C to +105°C

Includes: 3 ea. 2-pin plugs and 2-pin receptacles, 8 ea. male contacts and 8 ea. female contacts.



Part No.	Product No.	Description	1	10	50
142113CH	1625-2	Kit \$5.	69	\$5.15	\$4.59



#### .093" Power Connector Kits

These assortment kits contain mating sets of housings and pins.

- · Voltage: 250VAC
- Temperature range: -40°C to +105°C

142181CH: • 3 ea. 2-pin plugs & receptacles, 8 ea. female & male contacts Current: 12A

142201CH: • 2 ea. 4-pin plugs & receptacles, 10 ea. female & male contacts • Current: 9A

142228CH: • 2 ea. 6-pin plugs & receptacles, 14 ea. female & male contacts • Current: 9A Includes: Male and female tin-plated standard brass .010" pins; 18-22 AWG crimp size wire





142228CH

Part No.	Product No.	Description 1	10	50
142181CH	1545	2-pin kit <b>\$4.95</b>	\$4.49	\$3.95
142201CH	1490	4-pin kit <b>5.69</b>	5.15	4.65
142228CH	1261	6-pin kit <b>5.25</b>	4.75	3.95

# **Extraction Tools for Molex Connectors**



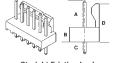
142156CH/227467CH: For .062" power connectors 142236CH/227395CH: For .093" power connectors 236128CH/234940CH: For .100" KK® series housing

Part No.	Product No.	AWG	1	10
142156CH	W-HT-2285	18-30	\$14.49	\$13.49
227467CH	W-HT-2023	18-30	11.99	10.99
142236CH	W-HT-2038	14-30	14.49	13.49
227395CH	W-HT-2054	14-30	11.99	10.99
236128CH	W-HT-1884	22-30	9.99	8.99
234940CH	11-03-0022	22-30	14.99	12.99

# molex

# KK® Series .100" (2.54mm) Male Headers

- Voltage: 250V Current: 4.0A Contact resistance: 20mΩ max.
- Dielectric withstanding voltage: 1500V
- Insulation resistance:  $50,000M\Omega$  min.
- Housing: nylon, UL94V-0
- Contact: brass, 0 - 6.4mm (0.25") square
- Durability: tin 25 cycles max.; gold 100 cycles max.





Straight Friction Lock Straight Header

Right Angle Friction Lock

### Straight Headers (Tin)

- Dimensions: (A) .295"; (B) .130"; (C) .135"
- \*Prepackaged: order in increments of 10 or 100

•	•				
Part No.	Product No.	Positions	1	10	100
232178CH	22-03-2021	2	. *	\$.10	\$.09
232186CH	22-03-2031	3	*	.16	.14
232194CH	22-03-2041	4	*	.21	.19
232207CH	22-03-2051	5	29	.26	.24
232215CH	22-03-2061	6	34	.31	.27
232223CH	22-03-2081	8	40	.37	.33
232231CH	22-03-2101	10	46	.42	.37
232240CH	22-03-2121	12	56	.51	.45

#### Straight Friction Lock Headers (Tin)

Dimensions: (A) .295"; (B) .125"; (C) .140"; (D) .322"

	` '	, , , , ,	,
Part No.	Product No.	Positions 1	10 100
232266CH	22-23-2021	2 <b>\$.29</b>	\$.23 \$.15
232274CH	22-23-2031	3 <b>.35</b>	.30 .19
232282CH	22-23-2041	4	.36 .23
232291CH	22-23-2051	5 <b>.49</b>	.42 .27
232303CH	22-23-2061	6 <b>55</b>	.48 .31
232311CH	22-23-2071	7 <b>63</b>	.55 .36
232320CH	22-23-2081	8	.63 .41
232338CH	22-23-2091	9 <b>76</b>	.66 .36
232346CH	22-23-2101	10 <b>.80</b>	.70 .46
232354CH	22-23-2121	12 <b>.95</b>	.83 .55

# Save Big! Special Values!

New Lower Prices = Orange Sale Priced Items = Yellow Exceptional Quantity Discounts = Green

#### Right Angle Friction Lock Headers (Tin)

• Dimensions: (A) .260"; (B) .125"; (C) .141"; (D) .322"

Part No.	Product No.	Positions	1	10	100
233437CH	22-05-3021	2	\$.42	\$.36	\$.22
233445CH	22-05-3031	3	56	.49	.30
233453CH	22-05-3041	4	71	.61	.39
233461CH	22-05-3051	5	77	.67	.43
233470CH	22-05-3061	6	85	.74	.48
233488CH	22-05-3071	7	99	.79	.56
233496CH	22-05-3081	8	1.03	.83	.58
233509CH	22-05-3101	10	1.08	.94	.61
233517CH	22-05-3121	12	1.19	.99	.69

#### Straight Friction Lock Headers (Gold)

Dimensions: (A) .295"; (B) .125"; (C) .140"; (D) .322"

Part No.	Product No.	Positions	1	10	100
233584CH	22-11-2022	2	. \$.54	\$.46	\$.29
233592CH	22-11-2032	3	85	.74	.47
233605CH	22-11-2042	4	87	.76	.49
233613CH	22-11-2052	5	. 1.22	1.06	.69
233621CH	22-11-2062	6	. 1.34	1.17	.76
233630CH	22-11-2072	7	. 1.55	1.36	.89
233648CH	22-11-2082	8	. 1.65	1.42	.93
233656CH	22-11-2102	10	2.05	1.77	1.16
233664CH	22-11-2122	12	. 2.39	2.12	1.39

#### Right Angle Friction Lock Headers (Gold)

Dimensions: (A) .260"; (B) .125"; (C) .141"; (D) .322"

Product No.	Positions	1	10	100
22-12-2024	2	. \$.89	\$.77	\$.48
22-12-2034	3	. 1.15	.99	.63
22-12-2044	4	. 1.36	1.19	.76
22-12-2054	5	. 1.49	1.31	.84
22-12-2064	6	. 1.65	1.43	.92
22-12-2084	8	. 1.85	1.51	1.05
	22-12-2024 22-12-2034 22-12-2044 22-12-2054 22-12-2064	22-12-2024     2       22-12-2034     3       22-12-2044     4       22-12-2054     5       22-12-2064     6	22-12-2024     2     \$.89       22-12-2034     3     1.15       22-12-2044     4     1.36       22-12-2054     5     1.49       22-12-2064     6     1.65	22-12-2024     2     \$.89     \$.77       22-12-2034     3     1.15     .99       22-12-2044     4     1.36     1.19       22-12-2054     5     1.49     1.31       22-12-2064     6     1.65     1.43



# KK® Series .100" (2.54mm) Female Housing and Crimp Contacts

- Voltage: 250V
- Current: phosphor bronze -
- 4.0A max., brass 2.5A max. Contact resistance:  $20m\Omega$  max.
- Dielectric withstanding volt.: 1500VAC
- Insulation resistance: 50,000MΩ

#### Housing Material:

- · Contact insertion force: 1.5 lbs. max.
- · Contact retention to housing: 8 lbs. min.
- Housing: nylon, UL94V-0
- Operating temperature: 0 to 75°C

234801CH

234721CH

Housing	with Locki	ng Ramp &	Pol	arizing	Ribs
Part No.	Product No.	Positions	1	10	100
234798CH	22-01-3027	2	\$.29	\$.17	\$.10
234801CH	22-01-3037	3	29	.21	.13
234819CH	22-01-3047	4	31	.27	.17
234827CH	22-01-3057	5	36	.31	.20
234835CH	22-01-3067	6	42	.36	.23
234843CH	22-01-3077	7	47	.41	.26
234851CH	22-01-3087	8	54	.47	.30
234860CH	22-01-3097	9	58	.50	.32
234878CH	22-01-3107	10	65	.55	.35
234886CH	22-01-3127	12	76	.66	.42

### Housing with Locking Ramp

Part No.	Product No.	Positions	1	10	100
234704CH	22-01-2027	2	. \$.29	\$.15	\$.09
234712CH	22-01-2037	3	29	.20	.12
234721CH	22-01-2047	4	29	.24	.15
234739CH	22-01-2057	5	33	.28	.17
234747CH	22-01-2067	6	36	.32	.20
234755CH	22-01-2087	8	47	.41	.26
234763CH	22-01-2097	9	51	.44	.28
234771CH	22-01-2107	10	57	.49	.31
234780CH	22-01-2127	12	67	.58	.37

#### Crimp Contacts

· Accommodates 22 to 30 AWG

- · Material: brass or phosphor bronze
- Insulation range: 0.062" (1.58mm) diameter max.
- · Prepackaged: order in increments of 10, 100 or 1000 234923CH: Brass with tin plating

234931CH: Brass with 15µ select gold plating

Part No.	Product No.	10	100	1000
234923CH	08-50-0114	\$.065	\$.048	\$.029
234931CH	08-55-0102		.17	.11

234931CH

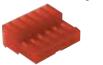
# Awesome Prices Consistent Quality



# .100" (2.54mm) IDC Connectors



- Voltage rating: 250VAC
- Current rating: 4A max.
- Dielectric withstanding voltage: 750VAC/1 min. Insulation resistance:  $5000M\Omega$  min. initial



345640CH Closed-End Style w/o Polarizing Tab



345981CH Closed-End Style w/ Polarizing Tab



346431CH Feed-Thru Style w/o Polarizing Tab

• Low-level resistance:  $5m\Omega$  max. initial



346790CH Feed-Thru Style w/ Polarizing Tab





#### Closed-End Style

#### Without Polarizing Tabs

\* Prepackaged: order in increments of 10 or 100

Part No.	Product No.	Pos.	AWG	Color	1	10	100
345631CH	640440-5	5	22	Red	\$.20	\$.122	\$.121
345640CH	640440-6	6	22	Red	21	.131	.13
345658CH	640440-7	7	22	Red	25	.152	.151
345666CH	640440-8	8	22	Red	28	.174	.166
345674CH	640440-9	9	22	Red	53	.371	.232
345682CH	1-640440-0	10	22	Red	35	.218	.184
345720CH	640441-5	5	24	White	*	.123	.121
345738CH	640441-6	6	24	White	*	.131	.13
345746CH	640441-7	7	24	White	25	.152	.142
345754CH	640441-8	8	24	White	20	.174	.158
345762CH	640441-9	9	24	White	72	.622	.545
345771CH	1-640441-0	10	24	White	26	.218	.217

#### With Polarizing Tabs

Part No.	Product No.	Pos.	AWG	Color	1	10	100
345965CH	643813-2	2	22	Red	*	\$.057	\$.056
345973CH	643813-3	3	22	Red	*	.07	.069
345981CH	643813-4	4	22	Red	*	.123	.104
345990CH	643813-5	5	22	Red	.20	.157	.142
346001CH	643813-6	6	22	Red	21	.174	.128
346010CH	643813-7	7	22	Red	25	.196	.178
346028CH	643813-8	8	22	Red	25	.19	.168
346036CH	643813-9	9	22	Red	72	.57	.54
346044CH	1-643813-0	10	22	Red	34	.253	.24
346087CH	643814-5	5	24	White	.20	.157	.142
346095CH	643814-6	6	24	White	21	.168	.153
346108CH	643814-7	7	24	White	25	.196	.179
346116CH	643814-8	8	24	White	28	.223	.203
346132CH	1-643814-0	10	24	White	35	.28	.254

# .100" (2.54mm) Flat Ribbon Cable

─ .100" —

- · .100" centers (2.54mm)
- 10-conductor
- 24 AWG stranded
- Insulation material: 7mm polyvinyl chloride (PVĆ) gray
- Rated temperature: 105°C
- · Rated voltage: 300V
- · Dielectric strength: 2kV in 1 min.
- Insulation resistance:  $100M\Omega$
- Capacitance: 31pF/m Inductance: 1.45µH/m

Part No.	Product No.	Length (Ft.) 1	10	25
363813CH	H24G-10-10	10 \$8.99	\$8.49	\$7.99
363821CH	H24G-10-25	25 19.99	18.99	17.99
363856CH	H24G-10-100	100 69.95	64.99	59.99
363864CH	H24G-10-250	250 <sup>†</sup> <b>199.99</b>	174.99	149.99

† 250 ft. full reel

Found a product at a lower print advertised price? We'll beat that price by 10% right down to our cost!

#### Feed-Thru Style

#### Without Polarizing Tabs

\* Prepackaged: order in increments of 10 or 100

Part No.	Product No.	Pos.	AWG	Color 1	10	100
346327CH	640620-2	2	22	Red *	\$.082	\$.081
346335CH	640620-3	3	22	Red *	.089	.088
346343CH	640620-4	4	22	Red *	.096	.095
346351CH	640620-5	5	22	Red *	.122	.104
346360CH	640620-6	6	22	Red *	.131	.13
346378CH	640620-7	7	22	Red20	.152	.144
346386CH	640620-8	8	22	Red20	.174	.152
346394CH	640620-9	9	22	Red57	.56	.55
346407CH	1-640620-0	10	22	Red29	.218	.20
346415CH	640621-2	2	24	White *	.078	.077
346423CH	640621-3	3	24	White $*$	.087	.083
346431CH	640621-4	4	24	White $*$	.096	.092
346440CH	640621-5	5	24	White *	.102	.098
346458CH	640621-6	6	24	White *	.131	.128
346466CH	640621-7	7	24	White20	.152	.148
346474CH	640621-8	8	24	White23	.174	.168
346482CH	640621-9	9	24	White 1.09	1.05	.99
346491CH	1-640621-0	10	24	White29	.218	.217

#### With Polarizing Tabs

Part No.	Product No.	Pos.	AWG	Color 1	10	100
346685CH	644540-2	2	22	Red *	\$.104	\$.095
346693CH	644540-3	3	22	Red *	.116	.106
346706CH	644540-4	4	22	Red *	.123	.112
346714CH	644540-5	5	22	Red20	.157	.142
346722CH	644540-6	6	22	Red21	.168	.153
346731CH	644540-7	7	22	Red25	.243	.178
346749CH	644540-8	8	22	Red28	.276	.203
346765CH	1-644540-0	10	22	Red35	.347	.255
346773CH	644563-2	2	24	White *	.101	.092
346781CH	644563-3	3	24	White *	.11	.10
346790CH	644563-4	4	24	White *	.123	.112
346802CH	644563-5	5	24	White20	.195	.142
346811CH	644563-6	6	24	White21	.168	.153
346829CH	644563-7	7	24	White25	.196	.178
346837CH	644563-8	8	24	White28	.223	.203
346853CH	1-644563-0	10	24	White35	.28	.255

#### **Belden Hook-up Wire**

- · Tinned copper
- PVC insulated
- Rated 105°C, 300V; 600V peak for electronic circuits and electrical equipment
- · Increments of 100' reels

2344xxCH: 24 AWG (7 x 32); 2344xxCH: 22 AWG (7 x 30) Color Code Chart (Replace the "xx" when ordering)

01 – Brown	02 - Red	03 – Orange	04 - Yellow
05 – Green	07 - Violet	08 – Gray	09 - White
05 – Green 10 – Black	13 - Dark bl	ue	

Part No.	Product No.	1	5	10
2344xxCH	9923-100-xx <b>\$12.8</b>	39	\$11.72	\$10.61
2343xxCH	9921-100-xx <b>14</b> .7	79	13.51	12.26



# Professional Grad

# .100" (2.54mm) IDC Headers

Housing: UL94V-0 rated, polyester, natural color





### Narrow Flat Headers



- · Posts: copper alloy, tin plated
- Base dimensions: 0.092"W x 0.1"H

Straight P	Post – Tin P	lated		ackaged: onents of 10	
Part No.	Product No.	Fig.	Pos.	1 10	100
347240CH	644456-2	1	2 >	₹ \$.136	\$.099
347258CH	644456-3	1	3 <b>.2</b>	0 .168	.123
347266CH	644456-4	1	42	2 .209	.163
347274CH	644456-5	1	5 <b>.2</b>	8 .266	.204
347282CH	644456-6	1	6 <b>.3</b>	0 .246	.223
347291CH	644456-7	1	73	0 .269	.192
347303CH	644456-8	1	84	1 .328	.297
347311CH	644456-9	1	94	5 .368	.334

#### Straight Post w/ Retentive Leg - Tin Plated

**347320CH** 1-644456-0 1 10 ..........**51** .**409** 

Part No.	Product No.	Fig.	Pos. 1	10	100
347338CH	644695-2	1	2 *	\$.112	\$.109
347346CH	644695-3	1	3 *	.12	.117
347354CH	644695-4	1	4 *	.183	.179
347362CH	644695-5	1	5 <b>.23</b>	.22	.192
347371CH	644695-6	1	6 <b>.25</b>	.248	.245
347389CH	644695-7	1	729	.288	.286
347397CH	644695-8	1	833	.328	.326
347400CH	644695-9	1	937	.368	.367
347418CH	1-644695-0	1	10 <b>.41</b>	.409	.408

#### Right Angle Post - Tin Plated

Part No.	Product No.	Fig.	Pos.	1	10	100
347426CH	644457-2	2	2	*	\$.116	\$.085
347434CH	644457-3	2	3	*	.151	.111
347442CH	644457-4	2	4	23	.229	.17
347451CH	644457-5	2	5	20	.189	.176
347469CH	644457-6	2	6	31	.30	.232
347477CH	644457-7	2	7	99	.98	.748
347485CH	644457-8	2	8	42	.40	.309
347493CH	644457-9	2	9	48	.475	.348
347506CH	1-644457-0	2	10	53	.528	.386

#### Right Angle Post w/ Retentive Leg - Tin Plated

Part No.	Product No.	Fig.	Pos.	1	10	100
347514CH	644694-2	2	2	*	\$.102	\$.081
347522CH	644694-3	2	3	*	.125	.122
347531CH	644694-4	2	4	*	.172	.171
347549CH	644694-5	2	5	24	.238	.234
347557CH	644694-6	2	6	26	.259	.255
347565CH	644694-7	2	7	30	.299	.297
347573CH	644694-8	2	8	34	.339	.216
347581CH	644694-9	2	9	39	.388	.382
347590CH	1-644694-0	2	10	43	.428	.425



147379CH

78326CH

EXCLUSIVE

147387CH

147395CH



# .100" (2.54mm) IDC Headers (Cont'd)

MEW

· Housing: UL94V-0 rated, polyester, natural color



#### **Friction Lock Headers**

· Posts: copper alloy, gold over nickel plated



#### Straight Post - Gold Plated

Part No.	Product No.	Fig.	Pos.	1	10	100
348058CH	641215-2	1	2	\$.37	\$.304	\$.276
348066CH	641215-3	1	3	42	.387	.368
348074CH	641215-4	1	4	52	.474	.456
348082CH	641215-5	1	5	91	.74	.671
348091CH	641215-6	1	6	74	.672	.648
348103CH	641215-7	1	7	82	.743	.712
348111CH	641215-8	1	8	50	.495	.492
348120CH	641215-9	1	9	1.34	1.088	.987
348138CH	1-641215-0	1	10	1.05	.956	.92

Right Ang	le Post – Go	old I	Plated		
348234CH	641216-2	2	2 \$.56	\$.559	\$.416
348242CH	641216-3	2	3 <b>.78</b>	.779	.573
348251CH	641216-4	2	495	.948	.694
348269CH	641216-5	2	5 <b>.82</b>	.743	.712
348277CH	641216-6	2	6 <b>1.25</b>	1.241	.908
348285CH	641216-7	2	7 <b>1.29</b>	1.28	.947
348293CH	641216-8	2	8 <b>.65</b>	.62	.58
348306CH	641216-9	2	9 1.45	1.43	1.046
348314CH	1-641216-0	2	10 <b>1.15</b>	1.043	.992

#### **Extraction Tools for Crimp Pins**

- Quickly and easily extract .093" locking pins from interlocking connectors
- Length: 5"
- · See right for crimp pins, 42729CH & 42649CH

131887CH: Male tool for 42729CH 131879CH: Female tool for 42649CH

Part No.	Product No. 1	10
131887CH	HT319C\$10.95	\$9.86
131879CH	HT319B 10.95	9.86



# **Free Technical Support**

Our knowledgeable Tech Support department is ready to answer your questions. Just call us!

# .118"-Pitch ATX Power Connectors for **Motherboards & Power Supplies**

Voltage rating: 250V AC/DC
 Current rating: 7A AC/DC
 Temperature range: -25°C to 85°C

• Insulation resistance: 1000M $\Omega$  min. • Withstanding volt.: 1500V/min.

147379CH: ATX male 20-pin edge mount connector

Material: nylon 66, UL-94VO

 Material of post: tin-plated brass
 Diameter of post: .045" 147387CH: Housing connector • Material: nylon 66, UL-94VO

147395CH: ATX power terminal pins • Material: tin-plated brass

\* Prepackaged: order in increments of 10, 100 or 1000

ı											
	Part No.	Description	L	W	Н	Dia	Use With	1	10	100	1000
	147379CH	20-pin male connector	1.7"	0.4"	0.6"	_	_	\$.59	\$.53	\$.48	\$.43
	147387CH	20-pin housing connector	1.7"	0.4"	0.8"	_	147395CH	.59	.53	.48	.43
I	147395CH	Power terminal pin, female	.59"	_	_	.068"	147387CH	*	.12	.11	.10
ı											

# .098"-Pitch AT Power Connectors for **Motherboards & Power Supplies**

Voltage rating: 250V AC/DC
 Current rating: 7A AC/DC
 Temperature range: -25°C to 85°C

Insulation resistance: 1000MΩ min.
 Withstanding volt: 1500V/min.

78300CH: AMP60G male 6-pin PCB mount connector

Material of post: tin-plated brass
 Diameter of post: .09"

78326CH: AMP50G female 6-pin housing connector • Material: nylon 78300CH

**78318CH:** AMP501T terminal pin • Material: tin-plated brass

	/8318CH: /	• Mater	ial: tin- <sub>l</sub>	olated I	orass	* Prepack	aged: order	in increme	nts of 10, 1	00 or 1000	
П	Part No.	Description	L	W	Н	Dia	Use With	1	10	100	1000
	78300CH	6-pin male connector	.93"	.37"	.57"	_	_	\$.45	\$.39	\$.35	\$.31
	78326CH	6-pin housing connector	.94"	.25"	.74"	_	78300CH	.35	.31	.28	.25
П	78318CH	Power terminal pin, female	.69"	_	_	.09"	78326CH	*	.11	.08	.07

#### **Power Connectors & Pins**

#### Connector & Housing Specifications:

- Voltage rating: 250VAC (Mate-N-Lock 600VAC)
- Operating temperature: -55°C to +105°C Crimp Pin Specifications:
- · Material: tin plated brass · Current rating: 1.5 amps
- Wire size range: 18-24 AWG
- Use crimp tool P/N 99442CH, pg 229
- Prepackaged: order in increments of 10, 100 or 1000

#### For 5.25" Disk Drives and Power Supplies 42075CH & 42067CH Connector Housings:

· .200" pitch

131887CH

(H)

- · Keyed mating connectors
- External kev bar indicates pin 1

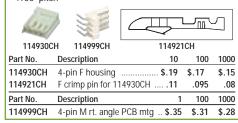


See left for extraction tools, 131887CH & 131879CH

Part No.	Description	10	100	1000
109145CH	4-pin M vert. PCB mtg	. \$.65	\$.59	\$.53
117567CH	4-pin M PCB mounting,			
	horizontal edge mount	78	.69	.63
42075CH	4-pin M housing	12	.11	.10
42067CH	4-pin F housing	20	.15	.13
42729CH	M crimp pin for 42075CH	10	.07	.06
42649CH	F crimp pin for 42067CH	10	.07	.06

#### For 3.5" Disk Drives and Power Supplies

.100" pitch



# .156" Center Housing **Connectors & Crimp Contact**

215950CH

227416CF

78318CH

· Mating connectors for Mean Well LPS and LPP series power supplies (pgs 154-155)

Current rating: 10A AC/DC

Voltage rating: 250V AC/DC

# 227416CH:

- · Material: brass
- · Finish: tin-plated
- 18-22 Δ\MĠ

10-22 A	770			
Part No.	Description 1	10	100	1000
215950CH	5 pos. housing \$.35	\$.32	\$.28	\$.26
215976CH	8 pos. housing39	.35	.32	.28
215968CH	12 pos. housing49	.44	.39	.35
227416CH	Crimp contact32	.29	.26	.22

# .156" (3.9mm) Center Straight-Friction Lock Headers

Ideal for AC and DC power distribution

Voltage rating:

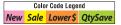


- Current rating: 7 amps AC/DC
- Contact resistance:  $20m\Omega$ Temperature range:
- -25°C to +85°C Header material:
- pin brass/tin-plated Base: nylon 66, UL94V-2
- \* Prepackaged: order in increments of 10, 100, 1000

Cross Ref. No. Pins

Other Manufacturers   Limited Great Deals						
104846CH	LMH10	10 <b>.22</b>	.20	.16	(.12	
104811CH		6 *				
104803CH		5 *	.13	.11	.09	
104791CH		4 *	\$.11	\$.09	\$.07	

Other I	Manufacture	rs — Limite	d Grea	t Deal	s
235491CH	8673-12-5	12 <b>\$.35</b>	\$.32	\$.25	\$.23



AMP - Biggest Name in Quality Connectors

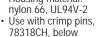




# .156" (3.9mm) Center **Housing Connectors**

· Common to many power supplies carried by Jameco. Some power supplies (pgs 150-153) may require multiple EXCLUSIVE







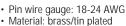
104731CH

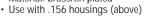
\* Prepackaged: order in increments of 10, 100, 1000

Part No.	Cross Ref. No.	Pins	1	10	100	1000
176743CH	LCH2	2	*	\$.07	\$.045	\$.04
104432CH	LCH3	3	*	.19	.12	.11
104715CH	LCH4	4	*	.22	.15	.12
104723CH	LCH5	5	24	.22	.16	.12
104731CH	LCH6	6	33	.30	.24	.15
104766CH	LCH10	10	39	.32	.28	.23



# .156" (3.9mm) **Center Crimp Pin**







Part No.	Mfr. Cross Ref. No.	10	100	1000
78318CH	JS-5001-T	. \$.11	\$.08	\$.07



# .156" Female Crimp Pins

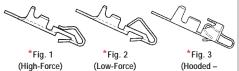
- · Pin wire gauge: 18-22 AWG
- · Material: tin-plated brass
- Use 99442CH crimping tool, pg 229

Prepackaged: order in increments of 10, 100 or 1000

Part No.	Mfr. Cross Ref. No.	10	100	1000
154093CH	LRPIN	\$.061	\$.05	\$.035

# **AMP** .156" Crimp Contacts

- Voltage rating: 250VAC
- · Current rating: 10A maximum
- Low level resistance: 30mΩ max.
- Dielectric withstanding voltage: 2000VAC/1 min.
- Insulation resistance: 1000MΩ minimum
- Compatible with .045" square or round posts
- Material and finish:
- \*A: brass, 0.012 bright tin plated
- \*B: brass, 0.012 pre-tin plated
- \*C: brass, 0.000030 gold over nickel plated
- \*D: phosphor bronze, 0.012 bright tin plated
- \*E: phosphor bronze, 0.000030 gold over nickel plated
- For use with .156" AMP housings (right)
- · Prepackaged: order in increments of 10, 100 or 500



Dual Wipe)

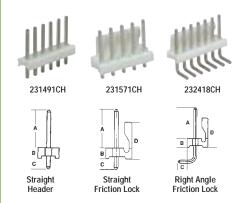
Part No.	Product No.	Desc.*	AWG	10	100	500
248866CH	640706-1	1A	18-24	\$.171	\$.155	\$.145
248874CH	640706-2	1B	18-24	152	.14	.13
248882CH	640707-1	2A	18-24	20	.175	.119
248891CH	770258-1	2C	18-24	39	.35	.32
248903CH	770522-1	3D	18-24	19	.138	.123
248911CH	770258-2	3E	18-24	30	.27	.23

#### AMP

# .156" (3.96mm) Male Headers

- Voltage and current rating: 600VAC @ 7.0A .045" square posts
- Contact material/plating: copper alloy/tin
- UL94V-0 flammability rating
- · Insulator material: polyester
- · Solder tail material/plating: copper alloy/tin





#### Straight Headers

Dimensions: (A) .450"; (B) .125"; (C) .125"

Part No.	Product No.	Positions	1	10	100
231458CH	640383-2	2	\$.23	\$.20	\$.17
231466CH	640383-3	3	26	.23	.20
231474CH	640383-4	4	29	.26	.22
231482CH	640383-5	5	37	.33	.27
231491CH	640383-6	6	40	.36	.32
231503CH	640383-7	7	47	.42	.34
231511CH	640383-8	8	55	.46	.39
231520CH	640383-9	9	60	.53	.45
231538CH	1-640383-0	10	65	.58	.49

#### Straight Friction Lock Headers

Dimensions: (A) .450"; (B) .125"; (C) .125"; (D) .425"

\*Prepackaged: order in increments of 10 or 100

Part No.	Product No.	Positions	1	10	100
231546CH	640445-2	2	*	\$.07	\$.06
231554CH	640445-3	3	. *	.075	.065
231562CH	640445-4	4	. *	.10	.08
231571CH	640445-5	5	*	.14	.10
231589CH	640445-6	6	. *	.17	.13
231597CH	640445-7	7	. *	.18	.15
231600CH	640445-8	8	. *	.23	.17
231626CH	1-640445-0	10	.31	.24	.19

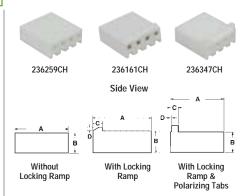
#### Right Angle Friction Lock Headers

Dimensions: (A) .450"; (B) .125"; (C) .125"; (D) .425"

0	Part No.	Product No.	Positions	1	10	100
7	232362CH	640389-2	2	\$.29	\$.26	\$.23
0	232371CH	640389-3	3	44	.39	.34
2	232389CH	640389-4	4	59	.52	.46
7	232397CH	640389-5	5	74	.65	.57
2	232400CH	640389-6	6	80	.71	.62
4	232418CH	640389-7	7	93	.83	.73
9	232426CH	640389-8	8	1.06	.94	.83
5	232434CH	640389-9	9	1.19	1.06	.92
9	232442CH	1-640389-0	10	1.33	1.18	.98

# .156" (3.96mm) Female Housing

- Voltage and current rating: 250VAC @ 6.5A maximum
- · Material: nylon, unreinforced 94V-0
- · Dielectric withstanding voltage: 2kVAC
- Insulation resistance: 1,000MΩ minimum
   Hole diameter: .054" (1.37mm)



#### Without Locking Ramp

• Dimensions: (A) .660"; (B) .250"

\*Prepackaged: order in increments of 10 or 100

Topashagear crack in more ments of 10 cm.					
Part No.	Product No.	Positions	1	10	100
236232CH	640251-2	2	*	\$.096	\$.095
236241CH	640251-3	3	20	.14	.08
236259CH	640251-4	4	29	.186	.107
236267CH	640251-5	5	*	.114	.106
236275CH	640251-6	6	25	.23	.19
236283CH	640251-7	7	42	.326	.213
236291CH	640251-8	8	45	.373	.243
236304CH	640251-9	9	46	.419	.337
236312CH	1-640251-0	10	27	.25	.243

# With Locking Ramp

- Dimensions: (A) .660"; (B) .250"; (C) .100"; (D) .0365"
- \*Prepackaged: order in increments of 10 or 100

Part No.	Product No.	Positions	1	10	100
236144CH	640250-2	2	*	\$.152	\$.134
236152CH	640250-3	3	*	.086	.053
236161CH	640250-4	4	*	.162	.15
236179CH	640250-5	5	.20	.138	.105
236187CH	640250-6	6	.21	.15	.112
236195CH	640250-7	7	.24	.15	.118
236208CH	640250-8	8	.22	.144	.142
236216CH	640250-9	9	.45	.419	.337
236224CH	1-640250-0	10	.51	.466	.349

#### With Locking Ramp and Polarizing Tabs

- Dimensions: (A) .660"; (B) .250"; (C) .100"; (D) .019" ±.003"
- \*Prepackaged: order in increments of 10 or 100

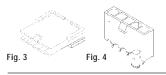
Part No.	Product No.	Positions	1	10	100
236321CH	770849-2	2	*	\$.114	\$.105
236339CH	770849-3	3	.22	.14	.08
236347CH	770849-4	4	.20	.173	.15
236355CH	770849-5	5	*	.171	.154
236363CH	770849-6	6	.30	.28	.182
236371CH	770849-7	7	.36	.326	.213
236380CH	770849-8	8	.39	.365	.30
236398CH	770849-9	9	.46	.39	.19
236401CH	1-770849-0	10	.31	.307	.291





#### .165" (4.20mm) Mini-Fit Jr. Connectors

- · Use with strain relief or overmold applications
- · UL/CSA/TUV approved
- · Uses standard Mini-Fit series terminals
- Positive housing lock for secure mating retention
  Fully isolated terminals to protect contacts from damage
- Housing: 6/6 nylon, UL 94V-2 rated

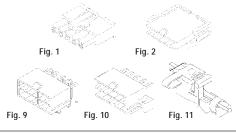






Molex - The Top Name in Power Connectors





#### Single Row Receptacles and Plugs

#### Receptacles

Part No.	Product No.	Fig.	Positions	10	100			
303765CH	39-01-4030	1	3 \$.43	\$.319	\$.203			
303773CH	39-01-4040	1	440	.318	.268			
303781CH	39-01-4050	1	539	.315	.265			
Danal Mar	Panel Mount Dlugs w/ Mounting Fore							

Panel Mount Plugs W/ Mounting Ears							
303790CH	39-01-4032	2	3 \$.46	\$.414	\$.276		
303829CH	39-01-4052	2	5 <b>.38</b>	.307	.258		

Panel Mount Plugs w/o Mounting Ears								
303802CH	39-01-4036	3	3 <b>\$.37</b>	\$.302	\$.254			
303811CH	39-01-4046	3	449	.404	.295			
303837CH	39-01-4056	3	5 <b>.53</b>	.461	.329			

#### Single Row Headers

- · Voltage: 600V
- Contact resistance: 10mΩ max.
- · Dieletric withstanding voltage: 1500VAC
- Insulation resistance: 1000MΩ min.
- · Contact: brass or phosphor bronze

#### Vertical Headers w/ Pegs

Part No.	Product No.	Fig.	Positions	1	10	100
304565CH	39-30-1039	4	3 \$	.90	\$.537	\$.433
304573CH	39-30-2035	4	3	.91	.555	.448
304581CH	39-30-2045	4	4 1	.49	1.24	.884
304590CH	39-30-2056	4	5 <b>1</b>	.55	.903	.721
Right Ang	le Headers	w/ Pe	egs			

3	•			9			
304602Cl	Н	39-30-3035	5		3 <b>\$1.02</b>	\$.603	\$.482
304611Cl	Н	39-30-3045	5		4 1.00	.96	.542
304629Cl	Н	39-30-3055	5		5 <b>1.55</b>	1.35	.903

#### **Double Row Receptacles**

Part No.	Product No.	Fig.	Positions 1	10	100
303562CH	39-01-2020	6	2 <b>\$.27</b>	\$.215	\$.162
303571CH	39-01-2040	6	441	.341	.232
303589CH	39-01-2060	6	640	.361	.243
303597CH	39-01-2080	6	845	.406	.274
303600CH	39-01-2100	6	10 <b>.50</b>	.445	.299
303618CH	39-01-2120	6	12 <b>.56</b>	.501	.336
303626CH	39-01-2140	6	14 <b>.69</b>	.612	.411
303634CH	39-01-2160	6	16 <b>.70</b>	.621	.417
303642CH	39-01-2180	6	18 <b>.81</b>	.723	.485
303651CH	39-01-2200	6	20 <b>.89</b>	.792	.532
303669CH	39-01-2220	6	22 <b>1.20</b>	1.07	.713
303677CH	39-01-2240	6	24 <b>.99</b>	.876	.589

#### Double Row Plugs

#### Panel Mount Plugs w/ Mounting Ears

Part No.	Product No.	Fig.	Positions 1	10	100
303685CH	39-01-2021	7	2 <b>\$.32</b>	\$.264	\$.193
303693CH	39-01-2021	7	447	.392	.267
303706CH	39-01-2061	7	6 <b>.51</b>	.364	.268
303714CH	39-01-2081	7	842	.371	.25
303722CH	39-01-2101	7	10 <b>.50</b>	.445	.299
303731CH	39-01-2121	7	12 <b>.51</b>	.454	.305
303749CH	39-01-2141	7	14 <b>.70</b>	.517	.399
303757CH	39-01-2161	7	16 <b>.75</b>	.602	.523

#### Double Row Headers

- Voltage: 600V
   Contact resistance: 10mΩ max.
- Dieletric withstanding voltage: 1500VAC
- Insulation resistance:  $1000M\Omega$  min.
- · Contact: brass or phosphor bronze

#### Vertical Headers w/o Pegs - Tin Plated

v Ci ticui i i	caacis wio	ı cys	, illii latet	4	
Part No.	Product No.	Fig.	Positions 1	10	100
303845CH	39-28-1023	8	2 \$.68	\$.415	\$.344
303853CH	39-28-1043	8	489	.761	.551
303861CH	39-28-1063	8	6 1.19	.95	.658
303870CH	39-28-1083	8	8 1.37	1.19	.827
303888CH	39-28-1103	8	10 <b>1.6</b> 5	1.45	.96
303896CH	39-28-1123	8	12 <b>1.7</b> 9	1.27	.888
303909CH	39-28-1143	8	14 <b>2.2</b> 5	1.98	1.39
303917CH	39-28-1163	8	16 <b>2.4</b> 9	2.11	1.46
303925CH	39-28-1183	8	18 <b>2.8</b> 9	2.56	1.71
303933CH	39-28-1203	8	20 <b>3.3</b> 9	2.95	2.01
303941CH	39-28-1223	8	22 <b>3.1</b> 5	2.46	1.68
303950CH	39-28-1243	8	24 <b>3.7</b> 9	3.16	2.25

Vertical Headers w/o Pegs - Gold Plated, 30µ"								
303968CH	39-29-0023	8	2 \$.88 \$.686 \$.589					
303976CH	39-29-0043	8	4 2.05 1.81 1.07					
303984CH	39-29-0063	8	6 <b>3.29 2.85 2.00</b>					
303992CH	39-29-0083	8	8 4.45 3.97 2.65					
304004CH	39-29-0103	8	10 <b>5.05 4.47 2.99</b>					
304012CH	39-29-0123	8	12 <b>5.65 5.22 3.49</b>					
304021CH	39-29-0143	8	14 6.85 6.08 4.07					
304039CH	39-29-0163	8	16 <b>7.75 6.87 4.59</b>					
304047CH	39-29-0183	8	18 <b>8.65 7.68 5.14</b>					
304055CH	39-29-0203	8	20 9.15 8.12 5.43					
304063CH	39-29-0223	8	22 <b>10.55 9.30 6.22</b>					
304071CH	39-29-0243	8	24 11.49 10.58 6.76					

Right Angle Headers w/ Pegs - Tin Plated								
304080CH	39-30-1020	9	2 <b>\$.64</b>	\$.566	\$.383			
304098CH	39-30-1040	9	4 1.02	.907	.604			
304101CH	39-30-1060	9	6 <b>1.31</b>	.968	.664			
304119CH	39-30-1080	9	8 <b>1.48</b>	1.31	.877			
304127CH	39-30-1100	9	10 <b>1.79</b>	1.05	.864			
304135CH	39-30-1120	9	12 <b>2.49</b>	2.16	1.47			
304143CH	39-30-1140	9	14 <b>2.75</b>	2.38	1.62			
304151CH	39-30-1160	9	16 <b>3.05</b>	2.35	1.70			
304160CH	39-30-1180	9	18 <b>3.39</b>	3.05	2.05			
304178CH	39-30-1200	9	20 <b>3.95</b>	3.49	2.33			
304186CH	39-30-1220	9	22 <b>4.45</b>	3.92	2.61			
304194CH	39-30-1240	9	24 <b>4.95</b>	4.39	2.92			

#### Strain Reliefs

- Contact resistance: 10mΩ max.
- · Dieletric withstanding voltage: 1500V
- Insulation resistance:  $1000M\Omega$  min.

Part No.	Product No.	Fig.	Positions 1	10	100
304637CH	15-04-0296	11	6 \$1.04	\$1.00	\$.95
304645CH	15-04-0343	11	8 1.14	1.08	.979
304653CH	15-04-0345	11	12 <b>1.15</b>	1.10	.998

Molex Mini-Fit Jr. Contacts on next page.

#### Double Row Headers (Continued)

#### Right Angle Headers w/ Pegs - Gold Plated, 30µ"

Part No.	Product No.	Fig.	Positions 1	10	100			
304207CH	39-30-1021	9	2 <b>\$1.69</b>	\$1.50	\$1.00			
304215CH	39-30-1041	9	4 2.15	1.90	1.26			
304223CH	39-30-1061	9	6 <b>2.65</b>	2.36	1.57			
304231CH	39-30-1081	9	8 <b>3.19</b>	2.85	1.90			
304240CH	39-30-1101	9	10 <b>3.85</b>	3.39	2.26			
304258CH	39-30-1121	9	12 <b>3.29</b>	3.25	2.65			
304266CH	39-30-1140	9	14 <b>5.25</b>	4.67	3.12			
304274CH	39-30-1161	9	16 <b>6.05</b>	5.41	3.60			
304282CH	39-30-1181	9	18 <b>4.55</b>	4.39	3.44			
304291CH	39-30-1201	9	20 <b>7.25</b>	6.47	4.31			
304303CH	39-30-1221	9	22 <b>8.65</b>	7.70	5.13			
304311CH	39-30-1241	9	24 10.15	9.05	6.03			
Diaht Ana	Dight Angle Headers w/ Flance Tin Dieted							

#### Right Angle Headers w/ Flange - Tin Plated

304320CH	39-29-1028	10	2 <b>\$.82</b>	\$.685	\$.466
304338CH	39-29-1048	10	4 1.06	.865	.665
304346CH	39-29-1068	10	6 <b>1.35</b>	1.06	.782
304354CH	39-29-1088	10	8 <b>1.65</b>	1.26	.876
304362CH	39-29-1108	10	10 <b>1.85</b>	1.55	1.16
304371CH	39-29-1128	10	12 <b>2.15</b>	1.81	1.36
304389CH	39-29-1148	10	14 <b>2.69</b>	2.23	1.63
304397CH	39-29-1168	10	16 <b>2.69</b>	2.46	1.84
304400CH	39-29-1188	10	18 <b>3.15</b>	2.82	1.88
304418CH	39-29-1208	10	20 <b>3.75</b>	3.32	2.21
304426CH	39-29-1228	10	22 <b>3.85</b>	3.41	2.28
304434CH	39-29-1248	10	24 <b>4.69</b>	3.97	2.78

Right Ang	le Headers	w/ FI	ange – Gold F	Plated,	30µ"
304442CH	39-29-5023	10	2 \$1.65	\$1.43	\$.96
304451CH	39-29-5043	10	4 1.85	1.64	1.10
304469CH	39-29-5063	10	6 <b>2.75</b>	2.38	1.62
304477CH	39-29-5083	10	8 <b>3.09</b>	2.75	1.83
304485CH	39-29-5103	10	10 <b>4.09</b>	3.65	2.43
304493CH	39-29-5123	10	12 <b>4.15</b>	3.66	2.44
304506CH	39-29-5143	10	14 5.15	4.55	3.04
304514CH	39-29-5163	10	16 <b>5.89</b>	5.22	3.49
304522CH	39-29-5183	10	18 <b>6.75</b>	5.99	4.01
304531CH	39-29-5203	10	20 <b>7.29</b>	6.47	4.32
304549CH	39-29-5223	10	22 <b>8.65</b>	7.68	5.13
304557CH	39-29-5243	10	24 <b>8.65</b>	8.18	5.47

#### **Hand Crimp Tools for** Mini-Fit Jr. Contacts





308030CH: Cuts & strips 14-24 AWG wires 227491CH: Cuts & strips 18-30 AWG wires

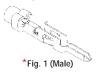
Part No.	Product No.	Lengin	Color	5
308030CH	W-HT-1919	8.3"L	Red \$14.99	\$13.99
227491CH	W-HT-1921	8.3"L	Yellow 14.99	13.99

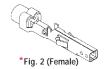
291258CH



#### .165" (4.2mm) Mini-Fit Jr. Contacts

- · Voltage: 600V
- Current: 9A (†12A current rating)
- Contact resistance: 10mΩ max.
- · Dieletric withstanding voltage: 1500V
- Insulation resistance:  $1000M\Omega$  min.
- Material:
  - \*A: Brass (pre-plated tin over copper)
  - \*B: Brass or copper (post-plated tin over nickel)
  - \*C: Brass (post-plated tin over nickel)
  - \*D: Phosphor bronze (pre-plated gold over nickel)
- \*Prepackaged: order in increments of 10, 100 or 1000





#### Male Contacts

Part No.	Product No.	Desc.*	AWG 1	10	100
304661CH	44478-3112 <sup>†</sup>	1B	16 <b>\$.20</b>	\$.171	\$.152
304688CH	39-00-0224	1D	16	.704	.508
304709CH	39-00-0096	1C	16 <b>62</b>	.517	.376
304725CH	39-00-0041	1A	18-24 *	.056	.047
304741CH	39-00-0220	1D	18-24 <b>.76</b>	.704	.389
304792CH	30490-2012	1D	18-24 <b>.25</b>	.244	.209
304805CH	39-00-0054	1C	18-24 <b>.43</b>	.404	.306
304821CH	30490-1012	1D	18-24 <b>.83</b>	.686	.494
304768CH	44478-1112 <sup>†</sup>	1B	22-28 <b>.28</b>	.261	.171
304864CH	39-00-0049	1A	22-28 <b>.20</b>	.071	.07
304881CH	39-00-0222	1D	22-28 <b>.76</b>	.649	.466
304901CH	39-00-0088	1C	22-28 <b>.43</b>	.40	.361

#### · Sold in 4000 piece reel

Part No.	Product No.	Desc.*	AWG	Price
307985CH	39-00-0040	1A	18-24	\$108.00

#### Female Contacts

Part No.	Product No.	Desc."	AWG	1 10	100
304670CH	4476-3112 <sup>†</sup>	2C	16 \$.3	2 \$.261	\$.155
304696CH	39-00-0186	2D	16 <b>.8</b>	5 .70	.51
304717CH	39-00-0168	2C	16	.479	.346
304733CH	39-00-0039	2A	18-24 >	.064	.059
304750CH	39-00-0182	2D	18-24 <b>.4</b>	5 .44	.389
304776CH	44476-1112 <sup>†</sup>	2B	18-24 <b>.3</b>	2 .261	.188
304784CH	44485-1212 <sup>†</sup>	2D	18-24 <b>.8</b>	.733	.523
304813CH	39-00-0164	2C	18-24 <b>.4</b>	3 .39	.345
304872CH	39-00-0047	2A	22-28 <b>.2</b>	.14	.096
304899CH	39-00-0184	2D	22-284	.435	.428
304910CH	39-00-0166	2C	22-28 <b>.5</b>	3 .478	.323

· Sold in 4000 piece reel

Part No.	Product No.	Desc.*	AWG	Price
307993CH	39-00-0038	2A	18-24	\$140.00



#### Hand Tools for Mini-Fit Jr.



#### 304928CH: Crimp tool

· Accepts wire range from 14-24 AWG

#### 304936CH: Extraction tool

Part No.	Product No. 1	5
304928CH	63811-1000 \$42.99	\$39.99
304936CH	11-03-0044 <b>19.99</b>	18.99

#### Series 800 Vertisockets

#### With Bifurcated Contacts

· Body material: UL 94-HB glass filled nylon

 Phosphor bronze spring tempered bifurcated contacts

Contact plating: 100µ" (2.54µm) tin or 10µ" (.254µm) gold

Contact current: 1.5A

· Operating temperature: 221°F (105°C) for tin; 257°F (125°C) for gold

 Suggested PCB hole size: .044" (1.12mm) dia.



291477CH

291485CH

• Gold plated (except 296770CH - tin plated)

#### Center pins: .300" (except 291231CH – .200")

#### Vertical Mount

Part No.	Product No.	Pins	L" x W"	1	10	100
291231CH	10-2810-90	10	1.0 x .29 .	. \$4.99	\$4.19	\$3.39
291477CH	14-810-90R	14	1.4 x .39 .	2.69	2.39	1.85
296770CH	14-810-90T	14	1.4 x .39 .	3.65	3.25	2.49

#### Horizontal Mount

**291485CH** 14-823-90 14 1.4 x .39 .. **\$4.15 \$3.69 \$2.85** 

#### Horizontal Mounting w/ Collet Contacts

- · Body material: UL 94-HB glass filled nylon
- Brass alloy pin body w/ 200μ" (5.07μm) 93/7tin/lead plating
- Beryllium copper alloy 4-fingered collet contacts
- Operating temperature: 221°F (105°C)
- Contact current: 3A
   Center pins: .300" (7.62mm)
- Suggested PCB hole size: .035<sup>th</sup> (.89mm) dia.

Part No.	Product No.	Pins	L" x W"	1	10	100
295241CH	40-6823-10	40	2.0 x .70	\$12.69 \$	11.19	\$8.79

# Cinch Jones Plugs and Sockets

#### Multiple-Density Solder-Eyelet Connectors with Hood and 180° Clamp

- · Insulation material: molded mono-block, black phenolic
- · Contact material: plug-brass; socket-phosphor bronze
- Contact plating: cadmium
- Hood material: UL 94V-0 rated thermoplastic
- Operating voltage: 250 VAC RMS maximum
- Current rating: 10 amps
- · Contact resistance: 16mΩ maximum



248823CH

#### **Plugs**

248778CH	P-303-CCT	3	2.39	2 15
	P-304-CCT	0	3.09	
248794CH	P-306-CCT	6	2.89	2.62
C1 1 -				

#### Sockets

Part No.	Product No.	Contacts	1	25
248807CH	S-302-CCT	2	\$2.29	\$2.11
248815CH	S-303-CCT	3	2.69	2.43
248823CH	S-304-CCT	4	2.69	2.46
248831CH	S-306-CCT	6	3.09	2.80

#### Jameco's Got the Docs

We offer free technical documents for most of the products we carry. Find them easily on the product spec page @ www.Jameco.com

#### **SERVICES** Oscillator Sockets

- · Body material: blue UL 94V-0 glass filled polyester thermoplastic
- Brass alloy pin, 1/2 hard w/ 200µ" (1.27µm) 93/7 tin/lead plating
- · Contact current: 3A
- · Center pin spacing: .300" (7.62mm)
- Operating temperature: 221°F (105°C)
- Suggested PCB hole size: .030" (.76mm)

Part No.	Prod. No.	Pos.	L" x W"	1	10	100
291282CH	1108800	8	.40 x .40	\$.56	\$.47	\$.38
291258CH	1107741	14	.70 x .40	56	.47	.38

#### **DIP Headers and** ARIES **Header Covers**





Standard cover/body material is red UL 94-HB glass filled nylon • High temperature cover/body material is black UL 94V-0 4/6 nylon

#### Series 600 Headers w/ Coined Contacts

- · Coined contacts are brass 1/2 hard
- Contact plating: 100µ min., tin
- Contact current rating: 2A
- Operating temperature: 221°F (105°C)
- Fork contacts: accepts up to .025" (.64mm) dia. leads

Part No.	Product No.	Pos.	*W (in.)	1	10	100
291119CH	08-600-10	8	.300 \$	1.09	\$.96	\$.79
291311CH	14-600-10	14	.300	1.55	1.37	1.11
291573CH	16-600-10	16	.300	1.69	1.49	1.22
291872CH	18-600-10	18	.300	1.89	1.67	1.35
291944CH	20-600-10	20	.300	2.05	1.79	1.45
291995CH	24-600-10	24	.600	2.49	2.19	1.79
295128CH	28-600-10	28	.600	2.89	2.55	2.06

Center to center pin width

#### Series 650 Header Covers

Part No.	Prod. No.	Pos.	. *Ht. (in.)	10	100
291127CH	08-650-10	8	.125 <b>\$.4</b> 8	\$.395	\$.335
291338CH	14-650-10	14	.12549	.40	.33
291451CH	14-650-20	14	.375 <b>.5</b> 3	.44	.36
291653CH	16-650-10	16	.125 <b>.5</b> 2	.43	.36
291661CH	16-650-20	16	.375 <b>.5</b> 2	.43	.36
291881CH	18-650-10	18	.125 <b>.6</b> ′	.50	.41
291952CH	20-650-10	20	.125 <b>.6</b> 0	.50	.41
292007CH	24-650-10	24	.125 <b>.6</b> 7	.56	.45
292023CH	24-650-20	24	.375 <b>7</b> 9	.68	.46
295136CH	28-650-10	28	.125 <b>.8</b> 7	.74	.61

#### Low Profile IC Socket Kit

#### Includes:

\* Max. component height

· 20-drawer component cabinet (319599CH), 20 clear plastic drawers (319601CH), 20 clear dividers (319610CH), pg 244 and 30 adhesive labels for draw-



SAVE \$22 10 ea. 22LP and 24SLP, pg 111 SAVE
 20 ea. 18LP, 24LP, 28LP and 40LP, pg 111

• 50 ea. 8LP, 14LP, 16LP and 20LP, pg 111

Part No. Description Wt. (lbs.) ➡ Blue Part No. = Limited Quantity Available



#### **EJECT-A-DIP DIP** ARIES Collet Sockets

#### With Solder Tail Pins

- Latch and body: UL 94V-0 glass-filled polyester thermoplastic
- Brass alloy pin body w/ 200μ" (5.08µm) 93/7 tin/lead plating
- Beryllium copper alloy 6-fingered collet contact w/ 10µ" (0.25µm) gold plating
- · Contact current: 3A
- Insulation resistance: 10,000MΩ @ 500VDC
- · Withstanding voltage: 1000VRMS
- Operating temp.: -67°F to 257°F (-55°C to 105°C)
- Center pins: 291493CH/291830CH .300"; 295216CH/295259CH - .600"
- · Suggested PCB hole size: .030" (.76mm) Dia.

#### Vertical Mount

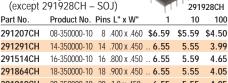
Part No.	Product No.	Pin	s L" x W"	1	10	100
291493CH	14-C280-10	14	.95 x .40	\$3.09	\$2.49	\$1.85
291830CH	16-C280-10	16	1.05 x .40	3.29	2.65	1.99
295216CH	32-C182-10	32	1.89 x .70	5.55	4.49	3.85
295259CH	40-C182-10	40	2.29 x .70	7.05	5.69	4.89

#### SOIC/SOJ to DIP Adapters

- · Board material: .062" thick FR-4 with 1 oz. copper traces on both sides
- Brass alloy pins 1/2 hard with 200µ" (5.08um) minimum tin plating
- Operating temperature: 221°F (105°C)
- Suggested PCB hole size: .028" (.71mm) Dia.

#### Series 35000X

- Center pins: .300" (7.62mm)
- SOIC package (except 291928CH - SOJ)



291864CH 291910CH 20-350000-10 20 1.0 x .450 ... 6.55 5.55 4.05 291928CH 20-350001-10 20 1.0 x .420 ... 6.05 5.99 5.35 291979CH 24-350000-10 24 1.2 x .450 ... 4.45 3.85 3.75 292074CH 28-350000-10 28 1.4 x .400 ... **6.05** 5.23 5.00

#### Series 45000X

- · Center pins: .400" (10.16mm)
- SOJ package

Product No. Pins L" x W" Part No. 10 100 32-450001-10 32 1.6 x .530 \$9.09 \$8.99 \$8.89 295179CH

#### Series 65000X

- Center pins: .600" (15.24mm)
- SOIC package

(except 295187CH - SOJ)

292040CH Part No. Product No. Pins L" x W" 295187CH 32-650000-10 32 1.6 x .700 \$10.35 \$10.25 \$10.15 292040CH 24-650000-10 24 1.2 x .700 ... 9.19 8.55 6.75 295144CH 28-650000-10 28 1.4 x .700 10.35 10.25 10.15

#### Series 516 ZIF Sockets

- · Body, handle, and cam are 94V-0 glass-filled polyester thermoplastic
- · Copper beryllium pins w/  $50\mu$ " (1.27 $\mu$ m) tin plating · Contact current: 1A
- Operating temperature: 221°F (105°C)
- Center pins: .600" (15.24mm)
- · Suggested PCB hole size: .035" (.89mm) Dia.

Part No. Product No. Pins L" x W" 10 100 295110CH 28-516-10 28 1.2 x .785 \$8.99 \$8.19 \$7.75

#### **Row-to-Row DIP** ARIES Adapter Socket

These sockets allow the use of .300" (7.62mm) center devices when the PCB is drilled on .600" (15.24mm) centers and vice versa, giving the flexibility of using .600" or .300" center devices in the same application.

- · Socket body: UL 94-HB
- glass-filled nylon

291830CH

Lower \$\$\$

Lower \$\$\$

295110CH

- Brass alloy pin body w/ 200µ" (1.27µm) 93/7 tin/lead plating
- Beryllium copper alloy 4-fingered collet contact w/ 30µ" (0.76µm) gold plating
- Contact current: 3A
- Operating temp.: 221°F (105°C)
- Suggested PCB hole size: .035" (.89mm) dia.

#### Series 1106396 - .300" to .600" adapter

Part No.	Product No.	Pins	1	10	100
296737CH	1106396-24	24	\$9.69	\$7.39	\$6.79
296745CH	1106396-28	28	10.89	8.29	7.55

#### Series 1107254 - .600" to .300" adapter

Part No.	Product No.	Pins	1	10	100
296753CH	1107254-24	24	. \$9.69	\$7.39	\$6.79
296761CH	1107254-28	28	. 10.89	8.29	7.55

#### PLCC Test & Burn-In ARIES **Zero Insertion Socket**

#### Series 536

- · Black body UL 94V-0 glass-filled polyphenylene sulfide
- Beryllium copper alloy contacts w/ 12µ" (.30µm) gold plating Contact current: 1A
- · Contact resistance:
- $30m\Omega$  max. (initial)
- Insulation resistance:  $1000M\Omega$  min.
- · Dielectric strength: 700VAC cont. for 1 minute
- · Self inductance: 8.9nH at 10MHz
- Operating temp.: -67°F to 338°F (-55°C to 170°C)
- Size: 1.772"L x 1.339"W

Part No.	Product No.	Pins 1	10	100
295267CH	44-536-11	44 \$60.49	\$60.39	\$60.29

#### ■ ARIES Series 526 Low Profile **ZIF Socket**

- · Body: UL 94V-0 glass-filled polyester thermoplastic
- Beryllium copper alloy spring tempered contacts w/ 200µ" (5.08µm) tin plating
- Zinc alloy cam
- Operating temp.: -67°F to 221°F (-55°C to 105°C)
- · Contact current: 2A
- Contact resistance: 10mΩ max.
- · Breakdown voltage: 1000VAC min.
- Center pins: .600" (15.24mm)
- Suggested PCB hole size: .035" (0.89mm) Dia.

Part No.	Product No.	Pins	s L" x W"	1	10	100
296788CH	24-526-10	24	1.45 x .75	\$5.65	\$5.19	\$4.39
102744CH	28-526-10	28	1.64 x .75	5.49	4.99	4.49
102752CH	40-526-10	40	2.24 x .75.	6.95	6.39	5.75

#### **Lowest Price Guarantee**

Found a product at a lower print advertised price? We'll beat that price by 10% right down to our cost!

#### MARIES High Temp. Universal Zero Insertion DIP Test

#### Series X55X

1106396

Series

1107254

Series

- · Accepts devices on .300" to .600" (7.62mm to 15.24mm) centers
- Contacts are normally closed to eliminate dependence on plastic to sustain contact



295152CH

323272CH

323264CH

NEW

- Socket body: UL 94V-0 glass-filled PPS
- Stainless steel handle Contact current: 1A
- Beryllium nickel alloy contacts w/ 50µ" (1.27µm) nickel boron • Insulation resistance:  $1000M\Omega$
- Dielectric withstanding voltage: 1000VAC
- Operating temperature: 482°F (250°C)
- Center pins: .600" (15.24mm)
- Gold plating (except 296796CH tin plating)

292058CH 26-6554-11 26 1.3 x 0.9 \$10.95 \$9.59 \$9. 295161CH 28-6554-11 28 1.4 x 0.9 11.85 10.39 10.	.55 .25
205161CH 20 6554 11 20 1 4 v 0 0 11 05 10 20 10	.25
<b>275101CH</b> 20-0004-11 20 1.4 x 0.7 <b>11.05</b> 10.37 10.	
<b>295208CH</b> 32-6554-11 32 1.6 x 0.9 <b>13.15 11.49 11</b> .	.39
295232CH 40-6554-11 40 2.0 x 0.9 15.69 13.79 13.	.39
<b>295291CH</b> 48-6554-11 48 2.4 x 0.9 <b>19.39 16.19 16</b> .	.09
<b>103991CH</b> 24-6554-10 24 1.8 x 0.9 <b>7.49 6.79 5</b> .	.99
<b>104002CH</b> 28-6554-10 28 2.0 x 0.9 <b>8.45 7.39 7</b> .	.15
<b>104011CH</b> 32-6554-10 32 2.1 x 0.9 <b>9.95 8.49 8</b> .	.29
<b>104029CH</b> 40-6554-10 40 2.5 x 0.9 <b>11.25 9.80 9</b> .	.45
<b>296796CH</b> 48-6554-10 48 2.4 x 0.9 <b>13.49 11.89 11</b>	.79

#### MARIES PLCC-to-DIP Adapter with Socket

#### Series 653000

- Converts PLCC packaged ICs to DIP footprints
- Adapter body: FR-4; .062" (1.58mm) thick with 1 oz. mininum copper traces
- Brass alloy solder tail pins w/ 200µ" (5.08µm)
- 93/7 tin/lead Current rating: 1A
- Operating temperature: 221°F (105°C)
- Center pins: .600" (15.24mm)
- Suggested PCB hole size: .028" (.71mm) Dia.

Part No.	Product No.	Pos.	L" x W"	1	10	100
295152CH	28-653000-10	28	1.4 x .705	\$23.59	\$23.49	\$23.39
295195CH	32-653000-10	32	1.6 x .705	35.65	32.65	27.05

# SARIES DIP/SOIC to TO Adapter

8-pin DIP socket or 8-pin SOIC footprint on top and a circular 8-pin TO can male footprint at the bottom. ICs now available only in 8-pin DIP or SOIC can be readily mounted on boards having TO thru-hole footprints without having to redesign the board.

- Board thickness: .062"
- · Male pin: brass alloy with 200µ tin plating

296788CH

Suggested PCB hole size: .028" Dia.

#### 323272CH: DIP to TO adapter Socket body: black UL 94V-0

- Female pin: brass alloy with 10µ gold plating
- Female pin contact: beryllium copper with 10µ gold plating
- Accepts leads .015" to .025" Dia.: 100" to .125" long • Current rating: 3A
- Dimensions: 0.4"L x 0.4"W x 0.23"H

#### 323264CH: SOIC to TO adapter

 1 ounce copper traces on both sides • Dimensions: 0.375"Dia.

Part No. Product No. 10 100 323272CH 1109522 ..... \$8.35 \$7.89 \$7.49 323264CH 1109814 ...... 11.09 9.85







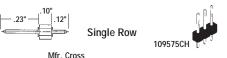




#### .100" Male Headers (Gold)

- · Solder to PC boards for instant plug-in access via shorting blocks, right
- Insulator: UL94V-0 polyester
- · Snap apart to fit your application
- Contact material: phosphor bronze
- Current rating: 1 amp Contact area: gold Temperature range: -55°C to +120°C
- .025" square posts on a .100" x .100" matrix
- Use with crimp connector housing, pg 112
- \*Prepackaged: order in increments of 10, 100 or 1000

#### .100" Straight Male Headers



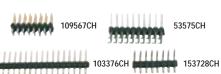
l	WIII . 01033					
Part No.	Ref. No.	Contacts	1	10	100	1000
108337CH	SMH02	2	*	\$.16	\$.14	\$.13
109575CH	SMH03	3	*	.17	.15	.135
117559CH	SMH04	4	*	.17	.15	.135
153699CH	SMH06	6	*	.17	.15	.135
153701CH	SMH08	8	*	.20	.17	.15
103392CH	SMH10	10	*	.18	.14	.10
103376CH	SMH17	17	*	.16	.14	.13
103368CH	SMH20	20	*	.25	.23	.21
202825CH	SMH22	22	*	.25	.233	.21
103350CH	SMH25	25	*	.25	.21	.16
103341CH	SMH30	30	.35	.31	.28	.25
68339CH	SMH36	36	.42	.38	.34	.29
160881CH	SMH40	40	.49	.44	.40	.36

#### .100" Straight Male Headers



_	67820	CH TT	Ļ		
De at No	Mfr. Cross	0			
Part No.	Ref. No.	Contacts 1	10	100	1000
115027CH	923804DS	4 *	\$.10	\$.09	\$.07
115035CH	923806DS	6 *	.18	.16	.14
109516CH	923808DS	8 *	.18	.16	.14
67820CH	923810DS	10 *	.18	.16	.14
203810CH	923812DS	12 <b>.60</b>	.55	.49	.44
118455CH	923814DS	14 <b>.45</b>	.40	.36	.33
109567CH	923816DS	16 <b>.55</b>	.49	.45	.39
203828CH	923818DS	18 <b>.65</b>	.59	.55	.47
53479CH	923862DS	20 <b>.59</b>	.55	.48	.43
203836CH	923822DS	22 <b>.70</b>	.63	.50	.38
203844CH	923824DS	24 <b>70</b>	.65	.59	.49
203852CH	923828DS	28 <b>.75</b>	.69	.55	.39
203879CH	923830DS	30 <b>.75</b>	.69	.61	.50
203861CH	923832DS	32 <b>.75</b>	.68	.54	.40
53516CH	923864DS	34 <b>.75</b>	.69	.61	.55
203887CH	923836DS	36 <b>.80</b>	.72	.58	.43
203895CH	923838DS	38 <b>.80</b>	.72	.58	.43
53559CH	923866DS	50 <b>.60</b>	.55	.49	.45
68574CH	923860DS	60 <b>.70</b>	.65	.59	.55
103405CH	923872DS	72 <b>.85</b>	.75	.69	.59
117196CH	923880DS	80 <b>.90</b>	.80	.75	.65

Other	Manufacture	ers — Limite	d Grea	t Dea	ls
53495CH	923863DS	26 <b>\$.63</b>	\$.57	\$.45	\$.34
53532CH	923865DS	40 <b>.59</b>	.53	.42	.31



#### .100" Right Angle Male Headers



	IVIII . CI USS				
Part No.	Ref. No.	Contacts 1	10	100	1000
153728CH	RMH08	8 <b>\$.45</b>	\$.40	\$.30	\$.25
103270CH	RMH36	36 <b>.75</b>	.64	.58	.41
TAMECO:					

# .100" Right Angle Male Headers



		Mfr. Cross				535	/500
Parl	No.	Ref. No.	Contacts	1	10	100	1000
203	908CH	923804DR	4 \$	.38	\$.34	\$.31	\$.28
203	916CH	923806DR	6	.49	.44	.30	.24
203	924CH	923808DR	8	.49	.44	.35	.26
203	932CH	923810DR	10	.59	.53	.48	.39
203	941CH	923812DR	12	.59	.53	.42	.31
203	959CH	923814DR	14	.65	.58	.47	.34
203	967CH	923816DR	16	.65	.59	.53	.43
203	975CH	923818DR	18	.65	.58	.47	.34
535	75CH	923820DR	20	.65	.59	.53	.47
203	983CH	923822DR	22	.65	.58	.47	.34
203	991CH	923824DR	24	.65	.58	.47	.34
535	83CH	923826DR	26	.69	.62	.51	.36
204	003CH	923828DR	28	.69	.62	.50	.37
204	011CH	923830DR	30	.75	.68	.54	.40
204	020CH	923832DR	32	.75	.68	.54	.40
204	038CH	923834DR	34	.75	.68	.54	.40
204	046CH	923836DR	36	.75	.68	.61	.50
204	054CH	923838DR	38	.75	.68	.54	.40
536	04CH	923840DR	40	.85	.75	.57	.50
536	12CH	923850DR	50	.85	.75	.57	.50
103	413CH	923872DR	72 <b>1</b>	.15	.99	.89	.75
139	563CH	923880DR	80 <b>1</b>	.35	1.19	1.09	.99



#### .100" and 2mm **Shorting Blocks**







22023CH (open)

112432CH (closed) 152670CH (closed)

- Mates to .025" square posts on .100" centers
- Shorting socket jumper to address or code strip line plugs
- Mate with male headers, above
- · Pin material: phosphor bronze

Open: open on top to allow for a test point Closed: closed – functionally they are the same 119263CH: 2mm shorting block (for disk drives)

Prepackaged: order in increments of 10, 100 or 1000

Part No.	Description	10	100	1000
22023CH	Top open, black (.100") \$	.12	\$.09	\$.06
119263CH	Top open, black (2mm)	.15	.13	.096
112424CH	Top open, blue (.100")	.12	.09	.06
112416CH	Top open, red (.100")	.12	.09	.06
19140CH	Top closed, black (.100")	.12	.09	.06
112441CH	Top closed, blue (.100")	.12	.09	.06
112432CH	Top closed, red (.100")	.20	.18	.12
152670CH	Top closed, black (.100")	.19	.15	.12

# JAMECO

53575CH

#### **Machine Contact Single-In-Line Female Sockets**

- Machine tooled
- Solder tail and wire wrap



175919CH Single x 36-pin ...... 1.19 1.09 101282CH Single x 20-pin WW2<sup>†</sup> 1.49 1.35 1.09 .80 104053CH Single x 30-pin WW3\* 1.95 1.75 1.49 1.35 

Other Manufacturers — Limited Great Deals 192840CH Single x 11-pin ....... \$.44 \$.40 \$.32 \$.24

#### Machine Contact Dual-In-Line Female Sockets

0.100" centers

Solder tail contact: .114"L

· Pin sleeve: tin

Part No.

212855CH

Contact clip: gold

siipi gola		- 10	1012011	
Mfr. Cross Ref. No.	Pins	1	10	100
SA101000	10	\$.29	\$.23	\$.21
SA121000	12	30	.28	.25
SA141000	14	35	.33	.30
SA161000	16	40	.37	.34
SA181000	18	45	.42	.38
SA201000	20	50	46	42

184612CH

212863CH SA1210 212871CH SA1410 212880CH SA1610 212898CH SA1810 184612CH SA20100 212901CH SA221000 22 .... .55 .51 .47 212919CH SA241000 24 .... .60 .56 .51 212927CH SA321000 .74 32 .... .80 .68 212935CH SA481000 48 .. 1.20 1.11 1.01

Over 99% of Our Products **Are In Stock** 

Place your order by 6PM EST for same business day shipment.







#### **Dual Wipe Solder Tail** Low-Profile Sockets **EXCLUSIVE**

- · Contact current: 1A
- · Contact resistance: less than 5mΩ
- · Dielectric withstanding voltage: 300Vrms



- Insulation resistance: greater than  $1000M\Omega$
- Thru-hole lead length: .140" (A)
- Body height: .188" (B)
- · Prepackaged: order in increments of 10, 100 or 1000 Mfr. Cross

Part No.	Ref. No.	Pins	Width (in.)	10	100	1000
112192CH	6LPD	6	0.3 \$.	.09	\$.06	\$.05
112205CH	8LPD	8	0.3	.09	.08	.07
112213CH	14LPD	14	0.3	.10	.075	.05
112221CH	16LPD	16	0.3	.13	.115	.095
112230CH	18LPD	18	0.3	.16	.14	.12
307977CH	22LPD	22	0.3	.14	.14	.12
112281CH	24SLPD	24	0.3	.14	.13	.09
112265CH	24LPD	24	0.6	158	.129	.089
112299CH	28SLPD	28	0.3	.21	.19	.17
112301CH	32LPD	32	0.6	.22	.187	.14
112310CH	40LPD	40	0.6	.26	.23	.19
167396CH	48LPD	48	0.6	.26	.23	.21

#### Other Manufacturers — Limited Great Deals

#### Single & Dual Wipe Low-Profile Sockets

	Mfr. Cross	;				
Part No.	Ref. No.	Pins	Width (in.)	10	100	1000
51570CH	8LP*	8	0.3 \$.00	63	\$.054	\$.045
37161CH	14LP*	14	0.308	31	.063	.054
37372CH	16LP*	16	0.309	9	.081	.054
38113CH	18LP*	18	0.309	99	.084	.063
38607CH	20LP*	20	0.310	90	.09	.063
112248CH	20LPD <sup>†</sup>	20	0.31!	53	.13	.098
39132CH	22LP*	22	0.410	90	.09	.085
39378CH	24SLP*	24	0.31!	53	.13	.098
39335CH	24LP*	24	0.610	6	.15	.11
112264CH	24LPD <sup>†</sup>	24	0.6 <b>.1</b> !	58	.136	.122
40301CH	28LP*	28	0.617	71	.117	.081
112272CH	28LPD <sup>†</sup>	28	0.618	39	.161	.12
41110CH	40LP*	40	0.617	71	.153	.108
112326CH	64LPD <sup>†</sup>	64	0.910	52	.139	.104
* Included in I	C Socket Ki	t, pg 10	08 † Dual Wipe			

#### SIMM Sockets



- Locking tabs
- Tinned contacts

· Memory module sockets · Keyed mounting posts Part No. Description 1 10 100 500 100301CH Single x 30-pin, vert. .... \$.52 \$.47 \$.43 \$.39

#### Other Manufacturers — Limited Great Deals

Dual x 30-pin, vert. \$24\$.20 \$.099 \$.09 \$.082 72531CH

#### **PLCC Surface Mount Sockets**

EXCLUSIVE

- · Current: 1A
- Dielectric strength:
- Insulator resistance:  $5000M\Omega$  minimum



• Temperature surface mount: -55°C/ +170°C

Mfr. Cross Ref. No. Pins Part No. 1 10 50 152688CH PLCC44D 44 ..... \$.75 \$.68 \$.54 \$.40 307951CH 850-68-99ST 68 ......... **.86** .**.78** 

Other Manufacturers — Limited Great Deals 152696CH PLCC68D 68 \$.62 \$.34 \$.31 \$.28 \$.26

# JAMECO"

#### **Machine Tooled Solder Tail** Low-Profile Sockets

- Contact plating: gold Tin-plated leads
- Contact current: 3A
- · Multiple contact elements
- Material: beryllium copper or phosphor bronze
- Contact resistance:less than  $5m\Omega$
- · Dielectric withstanding voltage: 300Vrms • Insulation resistance: greater than  $1000M\Omega$
- Insulator: glass-filled polyester or glass-filled polyphenylene sulfide
- Sleeve material: brass
- Thru-ho
- Body he

EXCLUS	h: .177" (A)	ole lead leng
Quantity SA	B)	eight: .117" (
4	Width	Mfr Cross

1	5	` '			Qua	illity 3/	AVE
	Mfr. Cross		Width				
Part No.	Ref. No.	Pins	(in.)	1	10	100	1000
167003CH	6MLPT	6	0.3	\$.29	\$.26	\$.18	\$.16
51625CH	8MLP	8	0.3	25	.22	.19	.17
37196CH	14MLP	14	0.3	42	.38	.33	.30
37401CH	16MLP	16	0.3	47	.43	.37	.34
65584CH	18MLP	18	0.3	55	.49	.43	.39
38623CH	20MLP	20	0.3	59	.55	.45	.39
39386CH	24SMLP	24	0.3	65	.59	.47	.35
114411CH	28SMLP	28	0.3	85	.75	.65	.55
40328CH	28MLP	28	0.6	83	.75	.65	.59
105380CH	32MLP	32	0.6	95	.85	.75	.65
41136CH	40MLP	40	0.6	1.19	1.05	.79	.69
42059CH	48MLP	48	0.6	1.29	1.16	1.04	.89
200707CH	64MLP	64	0.9	1.35	1.25	1.15	.99

	Manufact						
192209CH 39351CH 184680CH	224SMLP	22	0.4	\$.53	\$.48	\$.387	\$.29
39351CH	24MLP	24	0.6	65	.59	.47	.35
184680CH	284SMLP	28	0.4	80	.72	.58	.43

#### Wire Wrap Socket I.D. Markers

- · Quick identification of pin numbers
- Slips onto socket before wrapping
- Plastic
- · Can easily write location, part number or function



37145CH

Part No.	Prod. No.	Pins	Width (in.)	1	10	100	500
51561CH	8ID	8	0.3 \$	.44	\$.35	\$.30	\$.28
37145CH	14ID	14	0.3	.35	.31	.28	.24
37356CH	16ID	16	0.3	.29	.26	.25	.23
38105CH	18ID	18	0.3	.49	.45	.39	.35
38586CH	20ID	20	0.3	.55	.49	.45	.41
39327CH	24ID	24	0.6	.59	.52	.43	.38
40299CH	28ID	28	0.6	.65	.55	.47	.45
41101CH	40ID	40	0.6	.89	.79	.69	.65

#### **PLCC Solder Tail Sockets**

- · Solder tail allows through-hole board patterns in .100" grid
- Accepts JEDEC type "A" plastic leaded chip (0.05" centers)
- Thru-hole lead length: .125
- Body height: .375"



	Mtr. Cross					
Part No.	Ref. No.	Pins	1	10	50	100
71263CH	G1P428	28	. \$.56	\$.44	\$.34	\$.29
71811CH	G1P432	32	55	.48	.41	.39
71618CH	G1P444	44	. 1.15	.99	.81	.69
72442CH	G1P452	52	99	.79	.65	.55
71968CH	G1P468	68	. 1.15	.99	.89	.79
71976CH	G1P484	84	. 1.29	1.19	.93	.70

#### Level 1, 2 & 3 Wire Wrap Sockets

- · Contact plating/leads: gold (WW) or tin (TWW); dual wipe
- Material: beryllium copper or phosphor bronze Contact current: 1A





- Contact resistance: less than  $5m\Omega$ 37233CH
- · Dielectric withstanding voltage: 300Vrms
- Insulation resistance: greater than  $1000M\Omega$
- Insulator: glass-filled polyester or glass-filled polyphenylene sulfide
   Sleeve material: brass
   Thru-hole lead length: .315" (L1); .438" (L2);
- .638" (L3) Body height: .300" (A)

#### Gold (WW)

	-/									
Part No.	Prod. No.	Pins	W (in.)	1	10	100	500			
51641CH	8WW2	8	0.3 \$	\$1.49	\$1.29	\$1.19	\$.99			
37233CH	14WW2	14	0.3	1.49	1.35	1.19	1.09			
37479CH	16WW2	16	0.3	1.75	1.59	1.43	1.29			
196859CH	18WW3	18	0.3	1.55	1.37	1.20	1.09			
38674CH	20WW2	20	0.3	2.25	1.99	1.82	1.65			
39394CH	24WW2	24	0.6	1.85	1.63	1.43	1.33			
40352CH	28WW2	28	0.6	2.19	1.99	1.75	1.60			
41187CH	40WW2	40	0.6	3.15	2.80	2.45	2.29			
Tin /TII/I	Tin (TIM/M)									

#### Tin (TWW)

ı		-/						
	Part No.	Prod. No.	Pins	W (in.)	1	10	100	500
	112660CH	8TWW2	8	0.3	\$.86	\$.61	\$.58	\$.55
	37217CH	14TWW2	14	0.3	1.15	1.03	.93	.84
	37436CH	16TWW2	16	0.3	99	.89	.73	.66
	87636CH	18TWW2	18	0.3	1.09	.98	.81	.73
	75379CH	20TWW2	20	0.3	1.69	1.52	1.35	1.23
	75416CH	24TWW2	24	0.6	1.49	1.35	1.09	.79
	75424CH	28TWW2	28	0.6	1.89	1.63	1.36	1.22
	41179CH	40TWW2	40	0.6	2.49	2.15	1.79	1.59

#### Other Manufacturers — Limited Great Deals

0.3 .. \$1.05 \$.94 \$.76 \$.57 14WW1 14 196841CH 14TWW3 14 0.3 ..... .82

# IAMECO"

#### Level 3 Machine Tooled Wire Wrap Sockets

- Contact plating: gold Tin-plated leads
- Contact resistance: ≥5mΩ Dielectric withstanding
- voltage: 300Vrms
- Material: beryllium copper or phosphor bronze
- Insulation resistance: greater than 1000M $\Omega$  37410CH
- Insulator: glass-filled polyester or glass-filled polyphenylene sulfide
- Sleeve material: brass Body height: .115" (A) Thru-hole lead length: .365" (L2); .515" (L3)
- Blue Part No. = Limited Quantity Available

	Mfr. Cross		Width				
Part No.	Ref. No.	Pins	(in.)	1	10	100	500
94473CH	8MSWW3	8	0.3	\$.53	\$.46	\$.38	\$.34
62050CH	14MSWW3	14	0.3	93	.80	.67	.60
37410CH	16MSWW3	16	0.3	1.09	.93	.78	.69
94481CH	18MSWW3	18	0.3	1.09	.93	.78	.74
38631CH	20MSWW3	20	0.3	. 1.33	1.14	.95	.86
185324CH	22MSWW3	22	0.3	1.39	1.25	1.13	.85
105371CH	24SMSWW3	24	0.3	1.49	1.29	1.08	.97
94490CH	24MSWW3	24	0.6	. 1.35	1.15	.97	.89
200715CH	283MSWW3	28	0.3	1.69	1.43	1.19	1.07
40336CH	28MSWW3	28	0.6	. 1.69	1.43	1.19	1.07
117057CH	32MSWW3	32	0.6	2.19	1.99	1.79	1.49
94502CH	40MSWW3	40	0.6	2.65	2.28	1.90	1.71
200723CH	48MSWW3	48	0.6	2.99	2.69	2.39	2.15
200731CH	64MSWW3C	64	0.9	2.59	2.37	2.15	1.96

	Manufactur					
192831CH	224MSWW3	22	0.4 \$1.59	\$.49	\$.45	\$.40
313656CH	24MSWW3	24	0.6 <b>1.19</b>	1.05	.88	.79



Color Code Legend Sale Lower\$ QtySave

#### .100" Non-Polarized Connector **Housings and Crimp Pins**

- · Mates with .025" square post on pattern of .100" centers (male headers, see pg 110)
- Pin wire gauge: 26-22 AWG
   Plastic
- Temperature rating: -55°C to +105°C
- Use 159265CH pin crimper, pg 229 and 100765CH below





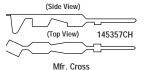
Single Row 103190CH



**EXCLUSIVE** 

	IVIII . C1055					
Part No.	Ref. No.	Contacts	1	10	100	1000
100811CH	SCH2	2	*	\$.23	\$.21	\$.17
157382CH	SCH3	3	*	.24	.22	.18
100802CH	SCH4	4	*	.25	.23	.19
163686CH	SCH5	5	30	.27	.25	.22
103211CH	SCH6	63	34	.31	.27	.21
103202CH	SCH8	8	39	.35	.29	.25
103190CH	SCH10	104	12	.39	.36	.31
103181CH	SCH20	20	19	.45	.39	.35
103157CH	SCH36	36	19	.45	.39	.35
100765CH	FCH1	Female pin	*	.11	.09	.06
145357CH	MCH1	Male pin	*	.15	.135	.12

#### **Double Row**





	WIII . CI 033					
Part No.	Ref. No.	Contacts	1	10	100	1000
103253CH	DCH8	8	\$.59	\$.53	\$.45	\$.39
157420CH	DCH10	10	69	.62	.55	.49
157438CH	DCH14	14	73	.71	.69	.59
103237CH	DCH16	16	79	.71	.64	.58
103229CH	DCH20	20	99	.89	.79	.69
157462CH	DCH40	40	1.09	.99	.89	.75
157471CH	DCH50	50	65	.59	.47	.35
100765CH	FCH1	Female pi	n *	.11	.09	.06
145357CH	MCH1	Male pin	*	.15	.135	.12



#### USB-A & B Connectors and Pins





230965CH

161023CH (USB-A)

174060CH: USB-A & B (2.0) Male Connector

- · 3-part housing: tin plate over brass and glass fiber 4-pins (P/N 159724CC, see web) required
- per USB connector

161023CH/230949CH/230957CH:

USB-A & B (1.0 & 2.0) Female Connectors

· PC mount right angle with board locks 230965CH: Male Crimp Pin

- Pin for P/N 174060CH (4 required) Contact: gold Use P/N 159265CH for crimping tool, pg 229
- \* Prepackaged: order in increments of 10, 100 or 1000

Part No.	Description	1	10	100	1000
161023CH	USB-A 1.0 conn. (F)	\$.79	\$.69	\$.62	\$.56
230949CH	USB-A 2.0 conn. (F)	99	.85	.55	.42
174060CH	USB-B 2.0 conn. (M	) <b>79</b>	.69	.62	.56
230957CH	USB-B 2.0 conn. (F)	99	.85	.55	.42
230965CH	Crimp pin (M) for 2	*	.125	.09	.065

#### .100" Low Profile Keyed Shrouded Headers & Connector

CD-ROM 4-Pin Headers and Connector







EXCLUSIVE

152725CH 152733CH

- · Voltage rating: 250V AC/DC
- · Current rating: 3A AC/DC
- Insulation resistance: 1000MΩ min.
- · Connector material: PBT, 30% glass
- Header material: PBT + 30% glass
- Withstanding voltage: 1000V AC/minute
- · Pin material: tin-plated brass
- Recommended crimp tool P/N 99442CH, pg 229
- \* Prepackaged: order in increments of 10, 100 or 1000

Part No.	Description 1	10	100	1000			
152741CH	Straight header \$.45	\$.39	\$.35	\$.29			
152725CH	Right angle header55	.50	.40	.30			
152733CH	Single w/ latch <sup>†</sup> 43	.37	.22	.16			
181673CH	Female pins *	.11	.08	.06			
+							

† P/N 152733CH requires 4 pins (P/N 181673CH)

#### .100" IDC DIP Flat Cable Plugs

- · Mates with standard 14, 16, 20, 24, 26, 28 & 40-pin DIP sockets with 0.1" spacing
- Plastic with gold-plated contacts
- Uses 28 AWĞ flat ribbon cable, pg 88
- · Current rating: 1 amp

Part No.	Ref. No.	Width	Contacts	1	10	100	500
42657CH	609-14	0.3"	14 \$.4	49	\$.40	\$.35	\$.29
42673CH	609-16	0.3"	16!	55	.45	.35	.30
104096CH	609-20	0.3"	20	69	.62	.55	.49
42690CH	609-24	0.6"	24	79	.71	.64	.59
99670CH	609-28	0.6"	288	89	.80	.72	.59
42711CH	609-40	0.6"	40 <b>1.</b>	15	1.05	.95	.85
							-



#### Card-Edge Connectors

• Fits all PC boards • .054" to .070" thick

#### Solder Eyelet .140" Spacing Between Rows

· Contact	centers	130 • WILL	• with mounting ears			
Part No.	Position	Contacts	1	10	100	
39116CH	22/44	Gold	\$2.95	\$2.65	\$2.38	

#### Solder Tail .200" Spacing Between Rows

- Contact centers: .100"
- · Without mounting ears



raitivo.	FUSITION	Contacts		10	100
40694CH	31/62	Tin (PC/AT) \$	.93	\$.82	\$.65
42091CH	49/98	Tin (AT)	.89	.59	.39

#### .100" DIP Header Plugs

- · Gold-plated leads
- · Header plugs: keyed corner to indicate pin 1





for easy component attachment Lead length: .188"
 0.1" spacing between leads

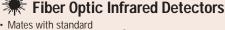
	Mfr. Cros	S				
Part No.	Ref. No.	Width	Pins	1	10	100
104336CH	8HP	0.3"	8	\$.79	\$.67	\$.57
37129CH	14HP	0.3"	14	1.19	.99	.89
37330CH	16HP	0.3"	16	1.35	1.25	1.09
20E70CU	20HD	0.2"	20	1 40	1 25	1 10

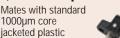


## 10' Fiber Optic Cable

 1000µm core jacketed plastic fiber optic cable (10')

_ '		_	
Part No.	Product No.	1	1
171272CH	IF-C-E1000	 \$6.95	\$6.2







 Connector-less fiber termination and connection

fiber cable

169990CH



· Inexpensive plastic connector housing

- · Compatible with LED emitters, below
- Interference-free transmission from light-tight housing



169965CH

169949CH

· Internal micro-lens for efficient coupling

169990CH: TTL compatible output infrared detector

· Peak wavelength sensitivity: 800nm

169981CH: TTL open-collector output infrared detector

Peak wavelength sensitivity: 850nm

Part No.	Product No.	Color Dot	1	10
169990CH	IF-D95T <b>②</b>	Yellow \$5.9	5 \$4.55	\$4.12
169981CH	IF-D96	White \$7.9	9 6.65	6.02

Blue Part No. = Limited Quantity Available



#### Infrared and Visible Light **Fiber Optic LED Emitters**

- Mates with standard 1000µm core jacketed plastic fiber cable (recommend P/N 171272CH, above)
- Internal micro-lens for
- efficient coupling · Connector-less fiber
- termination and connection · Interference-free transmission
- from light-tight housing
- Excellent linearity
- · Compatible with fiber optic photodetectors, above Peak Wavelength Sensitivity:

169957CH: 950nm, Vf=1.7V max @ 50mA 169965CH: 660nm, Vf=1.8V max @ 50mA 169949CH: 660nm, Vf=1.8V max @ 50mA

Part No.	Product No.	Color Dot	1	10
169957CH	IF-E91A <b>☉</b>	Blue \$2.99	\$2.19	\$1.99
169965CH	IF-E96 <b>☉</b>	Pink\$5.35	3.89	3.52
169949CH	IF-E97	Red <del>\$5.7</del> 5	4.19	3.81

Blue Part No. = Limited Quantity Available



#### **Commercial Customers**

Open an account with us to consolidate your monthly billing and save time





# DIN and Mini DIN Committee Plugs and Receptacles 15886CH

· Solder barrels including strain relief

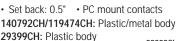
See page 88 for cable							
Part No.	Pins	Type 1	10	100			
142279CH	4	Mini plug \$.79	\$.68	\$.53			
142261CH	6	Mini plug	.77	.59			
177244CH	6	Mini receptacle	.85	.69			
111878CH	8	Mini plug	.89	.74			
177236CH	8	Mini receptacle 1.09	.93	.69			
15878CH	5	DIN plug	.47	.41			
180873CH	5	DIN receptacle52	.45	.34			
15886CH	6	DIN plug	.50	.39			
15894CH	8	DIN plug	.56	.43			

# **DIN Female Sockets**

· Metal body Panel mount with solder lugs

15851CH Mfr. Cross Part No. Ref. No. # of pins 1 10 100 500 DINJ5 15843CH \$ 79 5 ...... \$1.29 \$1.15 \$1.05 15851CH DIN 16 6 ...... **1.39 1.25** 15860CH DINJ8 8 ...... 1.49 1.35

#### Right Angle DIN **Female Sockets**





	WIII . 01033					. 11
Part No.	Ref. No.	# of pins	1	10	100	500
140792CH	MDR4S	4 (mini)				
119474CH	MDR6S	6 (mini)	75	.68	.54	.40
29399CH	RD5	5	59	.53	.40	.36

#### Other Manufacturers — Limited Great Deals

Set back: 0.5"
 PC mount contacts

· Plastic/metal body

207722CH 10

Part No. Ref. No. 1 100 500 # of pins 140791CH MDR4S 4 (mini) \$.62 \$.56 \$.45 \$.33 207722CH MDS8100 8 (mini) .. .89

## **PCB Centronics Connectors**



• Solder-type contacts • Space between rows: .164" Space between pins: 0.1" • Metal body • PC mount

72151CH 36-contact fem., rt angle \$3.55 \$3.19 \$2.87 72080CH 50-contact fem., rt angle ... 4.95

# Other Manufacturers — Limited Great Deals

159708CH 36-contact fem., straight \$1.25

# **IDC Centronics Connector**

· Contact material: gold plated phosphor bronze; plastic casing Current rating: 1 amp

• Temp. rating: -55°C to +105°C

 Use 73251CH IDC crimping tool, pg 229 Mfr. Cross

Part No. 10 Ref. No. Description 13848CH CFN36M 36-contact male \$1.75 \$1.55 \$1.39

# .100" IDC Plug Connectors

#### Double Row

.100" x .100" arid

Plastic

Shrouded header w/o mounting ears
Contact: gold-plated phosphor bronze

· Use with IDC socket for connectors, right

Part No.	Cross Ref. No.	Contacts	1	10	100
29188CH	P40	40 \$1.9	95	\$1.75	\$1.49
29217CH	P50	50 1.9	95	1.75	1.49

29217CH

#### .100" Low-Profile Male **Shrouded Headers**

• Rating: 1A (max.) @ 250VDC

 Contact resistance: 15mΩ max. · Features: UL recognized,

CSA certified; .025" square post mates with sockets on .100" x .100" grid

Contact: phosphor bronze, gold plated Use with IDC socket connectors, above

Straight Male Headers

Part No.	Description	1	10	100	1000
67811CH	10-pin	\$.39	\$.35	\$.32	\$.28
68179CH	16-pin	44	.40	.35	.32
68291CH	20-pin	49	.47	.39	.23
68371CH	26-pin	54	.42	.35	.21
68582CH	34-pin		.65	.46	.31
181104CH	40-pin	75	.60	.45	.315

#### Other Manufacturers — Limited Great Deals

#### Right Angle Male Header

100 1000 Part No. Description 10 211182CH -\$:41 \$.22 \$.20 \$.18 \$.17 26-pin .....

#### .100" (2.5mm) Female Header Receptacles (EXCLUSIVE

Gold plated contacts
 0.1" contact center

Right Ar	ngle Mo	ount (Side l	Entry)	68688888 		
Part No.	Contacts	Туре	1	10	100	500
71159CH	20	Double row	\$1.25	\$1.10	\$.99	\$.85
Vertical (Top En		!				
Part No.	Contacts	Туре	1	10	100	500
70754CH	8	Single row	\$.59	\$.53	\$.43	\$.35
20070201	1 10	Cinals row	70	EO	45	42

Part No.	Contacts	Туре	1	10	100	500
70754CH	8	Single row	\$.59	\$.53	\$.43	\$.35
200782CH	<b>I</b> 12	Single row	79	.59	.45	.42
308591CH	<b>I</b> 16	Single row	58	.48	.31	.243
308566CH	<b>l</b> 20	Single row	69	.57	.37	.289
70720CH	16	Double row	89	.79	.72	.65
70826CH	20	Double row	99	.89	.71	.53
105056CH	<b>I</b> 30	Double row	1.09	.98	.88	.74
163863CH	<b>l</b> 34	Double row	1.19	1.05	.92	.79
111704CH	<b>l</b> 40	Double (Tin)	1.29	1.15	.99	.89

#### Other Manufacturers — Limited Great Deals

163862CH Double row ... \$1.05 \$.94 \$.85 \$.71

#### **Centronics Parallel** Interface Connector

#### Metal Body and Shell Solder-Type Contacts

Solder eyelets accept 24 AWG wire, pg 88





Part No Cross Ref. No. Contacts 10 42382CH 57-30360 \$1.79 \$1.59 \$1.49

#### .100" & 2mm IDC Socket Connectors

#### Double Row

 Mates with 2 rows of .025"Sq. or Dia. posts on patterns of .100" centers (male headers, see below) • Current rating: 1A



Industry standard IDC socket (plastic)

 Temperature rating: -55°C to +105°C Use crimper P/N 73251CH, pg 229

**EXCLUSIVE** 

#### Polarized IDC Socket Connectors

	Mfr. Cross					
Part No.	Ref. No.	Contacts	1	10	100	1000
32491CH	S10	10 \$.2	29	\$.25	\$.19	\$.15
153947CH	S14	14	32	.27	.21	.16
119466CH	S16	16	35	.29	.22	.17
32521CH	S20	20	39	.32	.25	.18
32563CH	S26	26	45	.35	.29	.19
32643CH	S34	34	49	.39	.35	.25
32678CH	S40	40	55	.45	.39	.29
100386CH	IDC440*	44 (2mm) .9	99	.89	.75	.59
32707CH	S50	50	65	.55	.45	.35
32758CH	S60	60	75	.68	.61	.50
*2mm nin sn	acina					

#### Non-Polarized IDC Socket Connectors

Dt N.	Mfr. Cross	0		10	100	1000
Part No.	Ref. No.	Contacts	_1_	10	100	1000
138376CH	SN10	10 \$	.35	\$.32	\$.28	\$.24
138325CH	SN20	20	.45	.40	.36	.28
138333CH	SN26	26	.39	.35	.32	.24
138341CH	SN34	34	.45	.40	.35	.28
138350CH	SN40	40	.49	.45	.39	.29
138368CH	SN50	50	.65	.59	.467	.35

#### JAMECO .100" (2.5mm) Straight Male Headers

With Standard Latch

Double Row

 0.1" contact center Mount vertical

Keying slot

· Use with IDC socket connectors, above Description

117663CH 10-pin ..... \$1.29 \$1.16 \$.61 71829CH 20-pin ...... 1.39 1.25 .95 71933CH .89 26-pin ...... 1.49 1.25 .99 72215CH 50-pin ..... 1.85 1.65 1 49

# PANAVISE IDC Bench Press and Cable Cutter

Designed for low to medium volume mass termination of various IDC connectors on flat ribbon cable.



Part No. Prod. No. Description Wt. (lbs.) M505 Bench press 7.0 \$179.95 \$159.95

#### M505 Accessories

27182CH M507 Cable cutter 0.9 .... \$66.95 \$61.95 27203CH M510 Base plate 0.5 ..... 26.49 23.49



See page 88 for Gray and Multicolor Ribbon Cables.

Awesome Prices Consistent Quality Professional Grad



# Slim-Line D-Sub Gender Changers





EXCLUSIVE



56071CH

18446CH

#### For Confined Applications!

These revolutionary slim-line gender changers are only 0.69" wide, eliminating the space problems caused by standard gender changers. When plugged into your existing cable, they add only 0.44" to the cable. All-metal cases.

- Captive locking screw (male)
- Captive locking nut (female)
- Grounding tangs (male)
   Tin plated shells

Part No.	Description 1	10	100
18497CH	9-pin male to male \$4.95	\$4.49	\$3.99
18489CH	9-pin female to female 4.95	4.49	3.99
56071CH	15-pin male to male 3.95	3.49	2.95
56063CH	15-pin female to female 3.95	3.39	2.55
119319CH	15-pin female to female HD 4.29	3.89	3.49
119301CH	15-pin male to male HD 4.95	4.49	3.95
326537CH	15-pin M-F (pass through) 2.25	2.05	1.79
18446CH	25-pin male to male 4.95	4.49	3.99
18420CH	25-pin female to female 4.95	4.49	3.99
170085CH	25-pin M-F (pass through) 2.95	2.65	2.35

## D-Sub 9-Pin to 25-Pin Serial Adapters

10321CH: For PC/XT systems with DB25 serial ports. 139985CH: gold-plated contacts, extra long thumbscrews

	0 137	703011			
Part No.	Description	1	10	100	
10321CH	DB9 M to DB25 F	\$4.49	\$3.79	\$3.19	
189632CH	DB9 M to DB25 M	3.49	3.15	2.85	
139985CH	DB9 F to DB25 F	3.95	3.55	3.19	

#### Other Manufacturers — Limited Great Deals

#### D-Sub 9-Pin to 25-Pin Serial Adapters Quantity SAVE

10305CH: For use in AT or other computer systems that have 9-pin D-subserial ports.

163740CH/153576CH: For PC/XT systems with DB25 serial ports.



Part No.	Description 1	10	100
10305CH	DB9 F to DB25 M \$3.15	\$2.69	\$1.99
163740CH	DB9 M to DB25 F, thumbscrews		
	on DB9 side only 2.55	2.19	1.65
153576CH	DB9 M to DB25 F, thumbscrews		
	on DB25 side only 3.55	2.99	2.25

#### Full Handshaking Null **Modem Adapters**

Self-contained null-modem (cross-over) adapters. Change any standard straight cable into a null cable quickly and easily.

Internal pin configuration:

17224CH: 1-1, 2-3, 3-2, 4-5, 5-4, 6-20, 20-6, 7-7, 8-20 26243CH: 1-1, 2-3, 3-2, 4-8, 8-4, 5-8, 8-5, 6-20, 20-6, 7-7

20243011.	1 1,2 3,3 2, 4 0,0 4,3 0	, 0 5,	0 20, 20	0, 1 1
Part No.	Description	1	10	100
26243CH	DB25 M to DB25 F \$	3.95	\$3.65	\$3.49
17224CH	DB25 F to DB25 F	3.49	2.95	2.49

#### Standard D-Sub **Gender Changers**





316831CH

Standard 9 and 25-pin D-sub male and female gender changers for interfacing two cables or connectors of the same gender

Part No.	Description 1	10	100
16635CH	D-sub 9-pin male \$1.95	\$1.75	\$1.49
16643CH	D-sub 9-pin female 1.95	1.75	1.49
22058CH	D-sub 25-pin male 1.95	1.49	1.05
22074CH	D-sub 25-pin female 1.99	1.79	1.65

#### **Keyboard Adapters**



159089CH/189771CH: AT keyboard adapter

Connects PS/2 keyboard to AT

 6-pin female mini DIN to 5-pin male DIN 159097CH: PS/2 keyboard adapter Connects AT type keyboards to the PS/2

5-pin female DIN to 6-pin male mini DIN (PS/2)

316831CH: USB to PS/2 keyboard adapter

USB-A female to PS/2 male

Part No.	Length	Housing	1	10	100
159089CH	1.6"	Metal	\$2.95	\$2.65	\$2.39
159097CH	1.4"	Metal	2.95	2.65	2.39
189771CH	1.7"	Plastic	2.95	2.65	2.39
316831CH	2.0"	Plastic	1.79	1.59	1.39

#### Other Manufacturers — Limited Great Deals

#### PS/2 Keyboard Adapter

Connects AT type keyboards to the PS/2

5-pin female DIN to 6-pin male mini DIN (PS/2)

Part No.	Length	Housing	1	10	
157930CH	1.7"	Plastic/metal	\$2.65	\$2.25	\$1.69

# **Gender Benders** Save Money

I have a box of cables for those "just in case" situations. I go to it five or six

times a year. Usually a cable turns up that is almost right; perhaps a PS/2 extension cable when I need a PS/2 to AT cable.

My solution? While I have the most common cables in my stash box, I also keep a supply of gender benders (i.e., changers) with the cables. When a situation comes up, I usually have the solution immediately available. Later, I replace the improvised solution with the right cable and reclaim my gender changer(s). I'm a hero to the person with the problem, and I don't spend inordinate amounts of time looking for a solution.

# Practical Practices

Money Saving Tips for the Engineer

#### **Computer Card Brackets**

· For securing cards into bus slots

- Fits standard PC/XT/AT cases
- · Length: 4.75"
- · See pg 101 for DB connectors

Part No.	Description	Fig.	1	10	100
11754CH	Blank back panel	1	\$1.79	\$1.59	\$1.45
101717CH	For DB9 connector	2	. 1.79	1.59	1.45
101733CH	For DB25 connector	3	. 1.79	1.59	1.45
101741CH	For DC37 connector	4	. 1.79	1.59	1.45
101830CH	For DB9/DB25 conn.	5	. 1.79	1.59	1.45

#### Panel Bracket Cable Assemblies

- Standard computer back panel brackets
- Length: 12"
- · Ribbon cable with header connector



149614CH: 2 serial ports 149622CH: 1 parallel port

179995CH: 1 parallel & 2 serial ports 149622CH

Part No.	Description	1	10	25
149614CH	DB9M to 10-pin header			
	DB25M to 10-pin header	\$4.95	\$4.45	\$3.99
149622CH	DB25 to 26-pin header	4.95	3.75	2.65
179995CH	DB9M to 10-pin header DB25M to 10-pin header			
	DB25F to 26-pin header	1.19	1.01	.76

#### SCSI Adapters **SALE**





See below for SCSI-type connector guide

Part No.	Description 1	10	50
133920CH	50-pin ribbon header		
	SCSI-I to DB25 female \$5.05	\$4.59	\$4.18
125241CH	50-pin ribbon header to		
	HPDB50 SCSI-II female 9.95	8.45	6.35
167370CH	DB25 female to HPDB50 \$2.09		
	male SCSI-II1.39	1.27	1.16

#### SCSI Type / Connector Reference Table

SCSI type	in Centroli	Din Hea	Conch Ob	Oilch Ob	HIDE CONTON	Centrolics of	is list
SCSI-I	~	~	~				
SCSI-II			~	~			
SCSI-II wide					~		
SCSI-III					~	~	
RAID: SCA, SCA-2							~





#### Amphenol

#### **BNC Connectors and Adapters**

· Working voltage: 500V

- Frequency range: 0-4GHz
- · Contact plating: silver/gold

Fig. 9

· Body plating: nickel/tin-lead Cable type:

223360CH: RG55/141/142/223/400 223394CH: RG59/62/71/140/210/302

223474CH: RG59/62/140/210, Belden 8241/8263/8279/9209

Fig. 10

223693CH: RG5/9/87A/214/313/325







Fig. 13



Part No.	Product No.	Fig.	Industry No.	Description	<b>Lower \$\$\$</b>	10	25
223431CH	31-202	1	UG-88C/U	50Ω plug, straight, solder cup	\$4.35	\$3.69	\$2.65
223360CH	31-5	2	UG-89/U	50Ω jack, straight, clamp/solder		4.54	3.35
223378CH	31-8	3	UG-274/U	$50\Omega/75\Omega$ T-adapter, jack-plug-jack	12.69	10.42	8.05
223458CH	31-208	3	UG-274A/U	50Ω T-adapter, jack-plug-jack		6.59	6.49
223394CH	31-12	4	UG-260/U	$50\Omega$ plug, straight, clamp	7.29	5.54	5.14
223474CH	31-212	4	UG-260B/U	$50\Omega$ plug, straight, clamp/solder	4.19	3.21	2.95
223415CH	31-17	5	CW-159/U	$50\Omega$ male shorting cap	6.09	5.73	4.36
223423CH	31-102	6	UG-657/U	$50\Omega$ bulkhead receptacle, straight, s	older cup 5.35	4.99	4.09
223440CH	31-203	7	UG-290A/U	$50\Omega$ receptacle, straight/flange, sold	er cup 6.79	5.31	3.89
223482CH	31-218	8	UG-491A/U	$50\Omega$ in-series adapter, plug-plug	8.35	6.99	5.99
223491CH	31-219	9	UG-914/U	$50\Omega$ in-series adapter, jack-jack $$	4.55	4.22	3.08
223554CH	31-3220	10	UG-492D/U	$50\Omega$ bulkhead adapter, straight, jack	-jack 10.25	8.83	7.19
223511CH	31-221	11	UG-1094/U	$50\Omega$ bulkhead receptacle, straight, s	older cup 2.49	1.94	1.39
223538CH	31-2221	12	UG-1094A/U	$50\Omega$ bulkhead receptacle, straight, s	older cup 2.89	2.48	1.81
223520CH	31-236	11	UG-625B/U	$50\Omega$ bulkhead receptacle, straight, p	in/pin 2.69	2.16	1.59
223685CH	5575	11	UG-625/U	$50\Omega$ bulkhead receptacle, solder	4.15	3.36	3.08
223693CH	6775	13	UG-959/U	$50\Omega$ right angle plug, clamp/solder	12.59	9.56	8.54

#### Amphenol

#### **UHF Connectors and Adapters**

- Frequency range: 0-300MHz
- Working voltage: 500V
- Contact plating: nickel & silver

223600CH/223677CH: RG8/9/87A/214/313/225













Fig. 3			Fig. 4	Fig. 5	Fig. 6	Fig	j. 7	
Part No.	Product No.	Fig.	Industry No.	Description		1	10	25
223562CH	83-1AP	1	UG-646/U	In-series right angle adapt	er, jack-plug	\$8.15	\$7.59	\$6.16
223571CH	83-1F	2	UG-363/U	In-series bulkhead adapter	, socket-socket	12.09	10.25	10.23
223589CH	83-1J	3	PL-258	In-series straight adapter,	jack-jack	9.69	7.12	5.59
223837CH	83-1T 🖸	4	M-358	In-series T-adapter, jack-plu	g-jack	11.25	8.65	6.55
223597CH	83-1R	5	SO-239	Non-constant impedance pa	nel receptacle, solder cu	ıp <b>3.09</b>	2.49	2.35
223669CH	83-798	5	SO-239A	Non-constant impedance pa	nel receptacle, solder cu	ıp <b>5.55</b>	4.41	2.88
223600CH	83-1SP	6	PL-259	Non-constant impedance pla	ug, straight, solder-sold	er 3.65	2.81	2.48
223677CH	83-822	7	PL-259	Non-constant impedance pla	ug, straight, solder-sold	er <b>3.95</b>	3.02	2.48

Blue Part No. = Limited Quantity Available



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#### Amphenol

#### BNC $50\Omega$ Cable Plugs

#### BNC 3-Piece

- · Silver-plated
- · Frequency range: 0-4GHz with low reflection
- · Attachment (outer/inner): crimp/crimp

188306CH: RG58/184 188349CH: RG174/188/316



#### Amphenol

#### **BNC Adapters**







188306CH

· Frequency range: 0-4GHz with low reflection

188411CH: Straight jack-to-jack 188429CH: Jack-plug-jack 188402CH: Gasketed jack-to-jack

25
\$1.99
2.33
1.99

#### Amphenol

#### Type N Crimp Plug

- · Silver-plated • RG58/141
- Attachment (outer/inner):





#### Amphenol

#### SMA Brass Plug

- Frequency range: 0-18GHz · Outer cable attachment: crimp
- · Inner cable attachment: solder
- · Construction: captive contact
- · Type: crimp plug
- For RG174/U, RG188/U, and RG316/U cables

Part No.	Product No.	1	10	25
188488CH	901-9877-RFX	\$3.05	\$2.66	\$2.14

#### Amphenol

#### **SMA PCB Jacks**

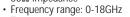
188509CH

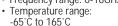
Lower \$\$\$

188525CH

 Application: cellular phone, data communication, instrumentation, and video





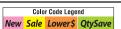


Part No.	Product No.	1	10	25
188509CH	901-144-8-RFX\$	3.25	\$2.73	\$2.35
188525CH	901-143-6-RFX!	5.19	4.20	3.65

#### Type N Adapter

- · Male to male
- · Nickel plated machined brass construction
- · Gold plated contacts



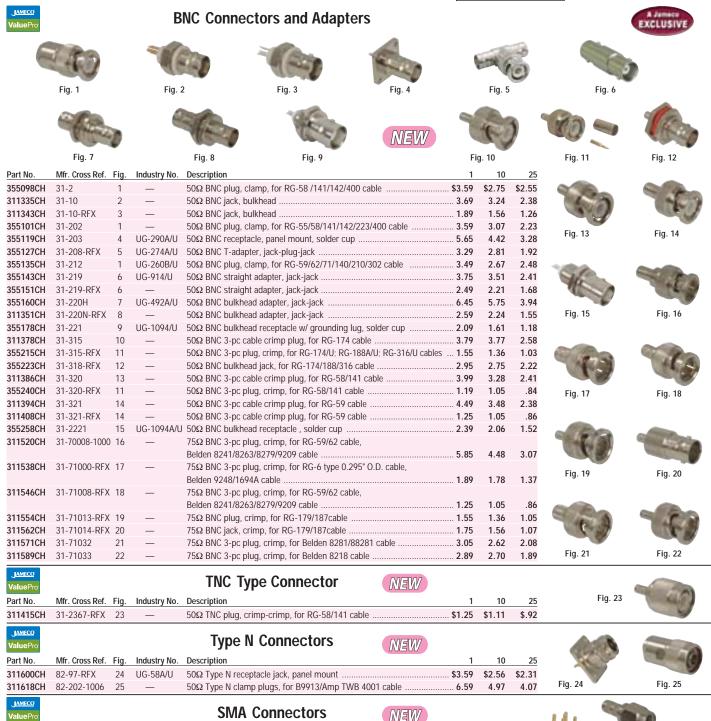


# Connectors and Adapters



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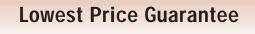


JAMECO ValuePro			<b>SMA Connectors</b>	NEW			LAI	-
Part No.	Mfr. Cross Ref. Fig.	Industry No.	Description	1	10	25		Fig. 27
355282CH	901-143-6RFX 26	_	50Ω SMA jack, right angle, PC mount	\$4.29	\$3.49	\$3.07	Ulder a	
355291CH	901-9876-RFX 27	_	50Ω SMA plug, crimp, for RG-58C/U; RG58/U cable	es 2.55	2.21	1.80		
355303CH	901-9877-RFX 28	_	50Ω SMA plug, crimp, for RG-174/U; RG-188A/U; RG	i-316/U cable 2.55	2.21	1.80	Fig. 26	F



Value Pro				MMCX Connector		
Part No.	Mfr. Cross Ref.	Fig.	Industry No.	Description 1	10	25
311686CH	908-43200	29	_	$50\Omega$ MMCX right angle plug, crimp, for RG-178/U cable	\$5.15	\$4.97





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#### JAMECO ValuePro **BNC PCB Connectors** 146510CH • Maintains matching impedance at $50\Omega$ & $75\Omega$ · Ideal for LAN cards & precision video Part No. Length (L) 1 10 100 500 BNC right-angle plastic insulation 1.37" ....... \$1.95 146510CH \$1.75 \$1.49 \$1.25 161656CH BNC right-angle metal .861" ..... **2.29** 161656CH 1.79 1 59

# • Length: .830" Part No. Description Other Manufacturers — Limited Great Deals 1 10 100 500



# | Section | 1 | 10 | 50 | 100 | 176794CH | 3' BNC to BNC ..... \$3.95 | \$3.55 | \$3.19 | \$2.89 |

176815CH 6' BNC to BNC ...... 4.95 4.49

RG58/U 50Ω Cables • For Ethernet networks, oscilloscopes Quantity SAVE								
• For Ethe			llosco	pes (	uantity!	SAVE		
Part No.	Mfr. Cross L Ref. No.	.ength (ft.)	1	10	50	100		
181307CH	CRG58-1RR	1	\$3.65	\$3.29	\$2.95	\$2.75		
102314CH	CRG58-1	1.5	3.99	3.49	2.99	2.49		
256743CH	CBB-224-24	2	9.75	9.39	8.89	7.99		
11404CH	CRG58-3	3	. 4.29	3.89	3.49	3.15		
256760CH	CBB-224-72	6	12.19	11.75	11.12	9.99		
102331CH	CRG58-6	6	. 4.39	3.99	3.59	3.19		
152311CH	RG58MF-6*	6	. 2.95	2.66	2.12	1.59		
180822CH	CRG58-10	10	4.49	3.99	3.40	2.99		
102349CH	CRG58-12	12	4.95	4.49	3.99	3.39		
169818CH	CRG58-15	15	. 4.95	4.46	3.56	2.67		
102381CH	CRG58-100	100	13.49	12.14	9.71	7.28		
*152311CH	nas male & femal	e coax 🧯	Blue P/	N = Limit	ed Qty Av	/ailable		
Other	Other Manufacturers Limited Creet Deale							

Other Manufacturers — Limited Great Deals								
102357CH	CRG58-25	25 <b>\$6.49</b> 50 <b>9.49</b> 100 <b>17.09</b>	\$5.84	\$4.67	\$3.44			
102365CH	CRG58-50	50 <b>9.49</b>	8.54	6.83	5.12			
319644CH	205-5100	100 <b>17.09</b>	16.25	15.45	14.65			

RG59/U 75 $\Omega$  Cables

• FOR CAT	v and vide	,	A	507		
	Mfr. Cross	Length		8554	2СН 🬘	gr .
Part No.	Ref. No.	(ft.)	1	10	50	100
86471CH	CRG59-1	1.5	\$2.99	\$2.69	\$2.45	\$2.19
85542CH	CRG59-6	6	. 3.75	3.39	2.73	2.05
102373CH	CRG59-12	12	. 5.49	4.95	4.45	3.99
262730CH	EBC-525	25	. 9.95	8.95	8.05	7.25
262748CH	EBC-550	50	17.05	16.25	15.45	14.69
262764CH	EBC-510	100	30.39	28.89	27.45	25.99

#### RG174/U 50 $\Omega$ Cables

• For Ethernet networks, oscilloscopes

Part No.	Mfr Cross Ref. No.	Length (ft.)	1	10	50	100
111472CH	RG174U3	3 \$3	3.85	\$3.49	\$3.15	\$2.85
111481CH	RG174U6	6 4	1.59	4.15	3.75	3.35

210884CH	BNC straight/panel mount m	etal <del>\$2.29</del> \$1.35	\$1.20	\$1.09	\$.99	100	111481CH RG17	4U6 6 <b>4.59</b>	4.15 3.75 3.35
JAMECO V Silver-pla ThinNet/	ated • General purpose of Ethernet LAN adapter		•	EXCLUS	IVE	10	(SIL)		CEAS
Part No.	Description	Quantity SAVE	10	100	500	118594CH	207095CH	72629CH	207087CH
118594CH	Male to female/female T-ada	pter \$2.39	\$2.15	\$1.75	\$1.25			(2-40)	
207095CH	Female to male/male T-adap	ter 6.99	6.25	5.59	4.99		The same of the sa		
72629CH	Female to female/female T-a	dapter 2.49	2.25	1.99	1.69	100 A	C. Carriera	20	E Se Shirt
207087CH	Female to male/female T-ada	pter 9.95	8.95	6.45	5.39	000	0	0.2	Charles of the Charle
100597CH	Male to female/female T-ada	pter (180°) 5.99	5.39	4.85	3.99	100597CH	207116CH	117461CH	207124CH
207116CH	Male to female/female/female	e T-adapter 7.19	6.45	5.79	4.95				
117461CH	Male to female/female F-ada	pter (90°) 4.29	3.89	3.49	2.99		500	-46	Name of Street
207124CH	Male/male to female/female	T-adapter 4.49	4.05	3.25	2.45				1
207167CH	RCA female to BNC female	1.99	1.79	1.59	1.39			200	
114788CH	RCA female to BNC male ada	pter 1.35	1.05	.99	.98	207167CH	114788C	H :	207175CH
207175CH	RCA male to BNC male	1.99	1.79	1.59	1.39			2	and the same
114753CH	RCA male to BNC female ada	pter 1.59	1.45	1.29	1.09		<b>37</b> 6	1	Charles Co.
114770CH	BNC female to "F" connector	male adapter 1.79	1.59	1.39	1.19		- 4		1
207141CH	3.5mm mono male to BNC for	emale 1.69	1.49	1.27	.95	11	14753CH	114770CH	207141CH

#### **SMB Connectors**



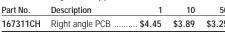
172371CH

- · For use with RG-174 coax
- $50\Omega$  crimp type Gold plated
- Use with crimping tool P/N 114534CH, pg 228

Part No.	Description 1	10	50
172363CH	Bulkhead crimp jack \$3.49	\$2.95	\$2.49
172371CH	Cable crimp plug 4.29	3.89	3.49

#### SMB PCB Connector

- · 0-4GHz electrical performance
- · Gold plated brass
- Insulation: teflon
- · Contact: beryllium copper





#### SMA/SMB 50 $\Omega$ Coax Cables



Fig. 1: SMA male to SMA male

- Fig. 2: SMA male to SMA right angle male
- Fig. 3: SMA right angle male to SMA right angle male Fig. 4: SMB plug to SMB plug

Part No.	Cable	Fig.	Lgth (ft.) 1	10	50
159370CH	RG58	1	2 \$4.49	\$3.99	\$3.49
159396CH	RG58	1	6 <b>5.49</b>	4.89	4.19
169800CH	RG174	1	0.5 <b>5.59</b>	4.99	4.55
163854CH	RG174	1	1 4.49	3.95	3.39
153381CH	RG174	1	2 <b>4.9</b> 5	4.29	3.39
153390CH	RG174	1	4 5.49	4.75	4.29
159450CH	RG174	1	4 6.79	6.15	5.55
175126CH	RG174	2	0.5 <b>4.49</b>	3.95	3.49
175134CH	RG174	2	1 4.95	4.25	3.75
175142CH	RG174	3	0.5 <b>5.75</b>	5.25	4.49
175151CH	RG174	3	1 6.25	5.75	4.75
175169CH	RG174	4	0.5 <b>4.25</b>	3.19	2.25



#### **SMA Connectors, Adapters and Couplers**













157972CH

145381CH

145373CH

153285CH

- · Application: cellular phone, data communication, instrumentation, and video
- · Frequency range: 0-18GHz
- 50Ω impedance
- Temperature range: -65°C to 165°C
   Plating: gold and nickel





Connecto	rs		160021CH	1	160012CH		
Part No.	Description	Cable Type	Plated 1	10	50	100	
157972CH	SMA $50\Omega$ crimp type male plug connector	RG58	Gold \$3.99	\$3.59	\$3.29	\$2.99	
153365CH	SMA $50\Omega$ crimp type male plug connector	RG174	Gold 4.39	3.95	3.55	3.19	
145381CH	SMA straight female PCB mount connector, 4 legs	_	Gold 5.25	4.75	4.25	3.49	
145373CH	SMA 90° female PCB mount connector, 4 legs	_	Gold 7.39	6.65	5.95	5.39	
153285CH	SMA bulkhead solder female w/ washer, rear mount	RG58/174	Gold 3.49	3.15	2.85	2.59	
159530CH	SMA female panel mount conn., 4 mounting holes*	RG58/174	Gold 2.95	2.65	2.35	2.10	
160021CH	SMA female panel mount conn., 2 mounting holes*	RG58/174	Gold 3.99	3.59	3.25	2.95	
160012CH	Panel mount feed thru connector female – female	_	Nickel 4.99	4.49	3.99	3.49	

\*159530CH/160021CH: Solder cup



#### Couplers





161277CH



161203CH



161306CH

	133273011	101277011	1012/3011	101300011		
Part No.	Description	Plated	1	10	50	100
153293CH	SMA straight coupler female – jack-to-jack	Gold	\$3.85	\$3.39	\$2.19	\$1.79
161277CH	SMA 3-way coupler, 1 male – 2 female	Gold	3.49	3.15	2.85	2.45
161293CH	SMA Straight coupler male – male	Gold	3.65	3.29	2.95	2.75
161306CH	SMA Right angle coupler male – female	Gold	4.99	4.49	3.99	3.65

#### SMA to BNC Adapters









153503CH



	133433611	137400011	133372011	1.0	7470011	
Part No.	Description	Plated	1	10	50	100
153453CH	SMA female to BNC male adapter	Nickel	\$2.49	\$2.25	\$1.99	\$1.79
159468CH	SMA female to BNC female adapter	Nickel	2.69	2.45	2.19	1.99
153592CH	SMA male to BNC male adapter	Nickel	3.99	3.59	3.19	2.89
159476CH	SMA male to BNC female adapter	Nickel	2.99	2.69	2.45	2.19



For RG-6/RG-59 75Ω Patch Cable, see page 97.

For BNC/F-Type Keystone Style Jacks, see page 92.





175177CH

RG174

#### 75Ω "F" Connectors/Adapters/Terminators

4.79



1 ..... 5.29

3			3	•			
Part No.	Product No.	Fig.	Description	1	10	50	100
291581CH	200-016	1	Perma-seal, RG-59 coax	\$.69	\$.59	\$.55	\$.49
291531CH	200-028	1	Perma-seal, RG-6 coax	69	.59	.55	.49
291709CH	200-050	2	F-jack to jack (nickel)	65	.55	.475	.38
291725CH	200-051	2	F-jack to jack (gold)	95	.85	.79	.75
295371CH	200-053	3	F-panel mount jack to jack (nic	ckel)65	.55	.475	.38
295380CH	200-107	4	F-R/A jack to plug (nickel)	1.59	1.39	1.16	.95
295451CH	200-075	5	F-plug terminator	55	.45	.35	.25
309657CH	200-045	6	RCA female to F male adapter	1.75	1.35	.97	.87



(Fig. 1)

#### 75Ω "F" Connectors





(Fig. 2)



(Fig. 3)

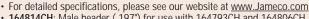


(Fig. 4)

100	Part No.	Product No.	Fig.	Description	1	10	50	100
\$.49	289828CH	200-030	1	RG-59 crimp-on nickel plated	\$.22	\$.20	\$.17	\$.14
.49	289908CH	200-031	1	RG-59 crimp-on gold plated	.45	.43	.41	.39
.38	289887CH	200-035	2	RG-6 crimp-on nickel plated	.22	.20	.17	.14
.75	289916CH	200-036	2	RG-6 crimp-on gold plated	.45	.43	.41	.39
.38	290001CH	200-039	3	RG-6 twist-on nickel plated	.79	.69	.45	.32
.95	289975CH	200-040	3	RG-59 twist-on nickel plated	.79	.69	.45	.32
.25	289924CH	200-038	4	RG-6 crimp-on weatherproof seal, brass	.69	.59	.49	.39
.87	314510CH	200-024	4	RG-6 crimp-on weatherproof seal	.55	.46	.37	.33

#### **Terminal Blocks and Header**





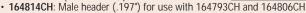


Fig. 8 (152346CH)



Fig. 1 (99397CH)



Fig. 4 (189675CH)



Fig. 7 (249084CH)

Part No.

99426CH

99397CH

160784CH

160792CH

161066CH

161058CH

189675CH

189667CH

164793CH

164806CH

249084CH

152346CH

152354CH

164814CH

Mfg.

Dinkle

Dinkle

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OST

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EDC130/3DS

EDC120/2DS

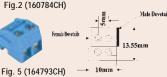
EDC120/3DS

EDSTL130/24

EDZ750/3





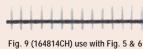


Top View



**FL** @ 🙉

**Quantity SAVE** 



.76

1.39

.55

44

1.79

.62

1.19

.45

.39

1.45

231378CH

.54

.89

.39

.30

1.05

Product No.	Fig.	Term.	Terminal Spacing	1	10	100	1000
DT128/2	1	2	.197"/5mm	\$.72	\$.55	\$.44	\$.40
DT128V3P	1	3	.197"/5mm	99	.89	.79	.59
EK500V-02P	2	2	.197"/5mm		.55	.45	.39
EK500V-03P	2	3	.197"/5mm		.85	.75	.69
EK500A-02P	3	2	.197"/5mm		.65	.49	.39
EK500A-03P	3	3	.197"/5mm		.85	.75	.69
EDC500/2DS	4	2	.197"/5mm		.71	.64	.58
EDC500/3DS	4	3	.197"/5mm		.80	.72	.61
EDC130/2DS	5	2	.197"/5mm	59	.53	.47	.42

.200"/5.08mm ...... 1.49

.197"/5mm .....<del>\$2.25</del> **1.99** 

.200"/5.08mm .....

#### **Double Row Terminal Blocks**

6

7

8

8

3

3

2

3

- · Voltage rating: 250VAC RMS max.
- Insulation: molded mono block, general purpose phenolic, black, UL rated 94V-1
- Eyelet material: brass with nickel plating

#### 230990CH Screw material: steel with nickel over copper flash plating Solder terminal material: brass with electro-tin plating

#### 140 Series 15A

- 3750-watts per terminal max.
- 16 AWG wire max. • Size: 0.88"W x 0.41"H
- Screw: 5-40 x 3/16" Density: .375"

Part No.	Prod. No.	Pos.	Length	1	10	100
230973CH	2-140	2	1.41"	\$.99	\$.89	\$.74
230981CH	3-140	3	1.78"	1.29	1.15	.95
230990CH	4-140	4	2.16"	1.45	1.29	1.05
231001CH	5-140	5	2.53"	1.59	1.44	1.18
231010CH	6-140	6	2.91"	1.99	1.79	1.48
231028CH	7-140	7	3.28"	2.19	1.95	1.59
231036CH	8-140	8	3.66"	2.49	2.24	1.83
231044CH	9-140	9	4.03"	2.79	2.49	2.03
231052CH	10-140	10	4.41"	3.25	2.89	2.35
231061CH	12-140	12	5 16"	3.55	3.15	2.59

#### 141 Series 20A

- 5000-watts per terminal max.
- 14 AWG wire max. • Size: 1.13"W x 0.5"H
- Screw: 6-32 x 1/4" Density: .438"

Part No.	Prod. No.	Pos.	Length	1	10	100
231351CH	2-141	2	1.63"	. \$.99	\$.85	\$.72
231360CH	3-141	3	2.10"	1.69	1.45	1.09
231378CH	4-141	4	2.50"	. 1.79	1.59	1.25
231386CH	5-141	5	2.94"	1.85	1.64	1.33
231394CH	6-141	6	3.38"	1.99	1.75	1.45
231407CH	7-141	7	3.81"	2.49	2.25	1.85
231415CH	8-141	8	4.25"	2.79	2.35	1.94
231423CH	9-141	9	4.69"	2.99	2.59	2.19
231431CH	10-141	10	5.13"	3.19	2.79	2.29
231440CH	12-141	12	6.00"	3.59	3.29	2.69

#### 057

237083CH

248735CH

#### **DIN Rail-Mounted Terminal Block and DIN Rail**

Foot snaps onto standard DIN and DIN 2 rails. Terminals are positively retained on rails, but can be removed without disturbing adjacent units.



 Molded thermoplastic
 Spacing: 5.06mm (.199") • UL rated voltage and current: 600V @ 20A • 14-22 AWG Part No. Product No.





rrent: 600V @ 20A • 14-22 AWG	237083CH	248735CH Sold in 1 meter (39") length			
Туре		1	10	100	
SR2.5		\$.89	\$.79	\$.69	
TS35 x 7.5 (35mm width x 7.5mm depth	າ)	6.79	5.45	4.10	

#### **European Terminal Blocks**

- · Number of poles: 12
- · 1.2mm raised base
- · Working temperature: 230°F (110°C)

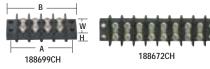


Material: Polvamide 66

- (nylon 66), UL94V2, natural · Voltage: 600V
- Terminal insert: brass metal alloy, nickel plated
- · Wire protector: stainless steel spring
- · Screws: zinc plated, yellow chromed

Part No.	Prod. No.	Amps	AWG	1	10	100
215010CH	PA8H	20A	12-22 .	\$1.79	\$1.59	\$1.29
215028CH	PA10H	30A	10-22 .	1.89	1.69	1.39
215036CH	PA12H	35A	10-22 .	2.59	2.29	1.99

#### KULKA® 601 GP Series **Double Row Terminal Blocks**



- Base: general purpose phenolic; 150°C
- Screws: #6-32, binder head, phillips-slot
- Terminals: brass plated
   Width (W): 1.12"
- .437" (11 mm) centers • Height (H): .50"
- 1100Vrms; 20A ratings; for 14-16 AWG wires
- Open block design
- UL/CSA/CE approved



Part Number	Product Number					10	50
188699CH	601GP4	4	2.19	2.50	\$1.69	\$1.49	\$1.35
188681CH	601GP6	6	3.06	3.38	2.39	2.19	1.89
188672CH	601GP8	8	3.94	4.25	2.95	2.75	2.49
188664CH	601GP10	10	4.81	5.13	3.49	3.25	2.95
188701CH	601GP12	12	5.69	6.00	5.49	4.95	3.95

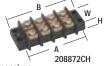
#### **Metric Double Row Terminal Blocks**



- Wire gauge range: 12-18 AWG
- Body material: black thermoplastic (UL94V-0)
- · Terminals: brass tin plated
- · Screws: steel nickel plated
- Insulation withstanding voltage: 2000VAC min.
   Insulation resistance: 1000MΩ or more at 500VDC

#### 10A @ 600V

- · Screw size: M3.0
- Width (W): 19.5mm
- Height (H): 11.9mm



Part	Product		Dimer	isions			
Number	Number I	Poles	<b>A</b>	В	1	10	50
208856CH	GGE-10-4P	4	47.5	55	\$.99	\$.89	\$.79
208864CH	GGE-10-6P	6	64.5	74	1.39	1.25	1.15
208872CH	GGE-10-8P	8	95	102.5	1.69	1.59	1.49
208899CH	GGE-10-10P	10	104.5	112	2.39	2.15	1.89
208881CH	GGE-10-12P	12	123.5	131	2.79	2.49	2.25

#### 20A @ 600V

- · Screw size: M3.5 • Width (W): 22.0mm
- Height (H): 13.2mm



Part	Product		Dimer	nsions			
Number	Number	Poles	: A	В	1	10	50
207538CH	GGE-20-4P	4	54.5	63.5	\$1.39	\$1.25	\$1.10
207546CH	GGE-20-6P	6	76.3	85.3	1.99	1.79	1.59
207554CH	GGE-20-8P	8	98.1	107.1	2.59	2.35	2.15
207562CH	GGE-20-10	<sup>2</sup> 10	119.9	128.9	3.29	2.99	2.69
207571CH	GGE-20-12	12	141.7	150.7	3.59	3.19	2.79

41296.2

2094.0

**AMP** P.I.D.G. (Pre-Insulated Diamond Grip) Nylon Insulated Terminals Designed for complete and uniform reliability. Nylon insulated terminals feature a tin plated copper body with copper sleeve fitted over the terminal barrel to provide maximum insulation support.

- High dielectric strength
   Temperature rating: 105°C
   Funnel ramp entry
   Copper support sleeve for insulation
   Meets MIL-T-7928









Ring Ton	gue Termi	inals	;				
Part No.	Product No.	Fig.	Stud Size	Wire (AWG)	Color 1	10	100
302594CH	323912	1	#2	26-22	Yellow \$.21	\$.208	\$.186
302607CH	323914	1	#4	26-22	Yellow	.215	.192
302615CH	323915	1	#6	26-22	Yellow	.208	.186
302623CH	323916	1	#8	26-22	Yellow	.251	.224
302631CH	324075	1	#10	26-22	Yellow29	.283	.171
302640CH	328657	1	#2	22-16	Red	.208	.186
302658CH	31880	1	#4	22-16	Red	.19	.15
302666CH	36152	1	#6	22-16	Red	.145	.133
302674CH	31890	1	#8	22-16	Red	.15	.133
302682CH	36154	1	#10	22-16	Red	.15	.133
302691CH	31894	1	1/4"	22-16	Red	.251	.172
302703CH	31895	1	5/16"	22-16	Red	.242	.215
302711CH	31897	1	3/8"	22-16	Red31	.305	.176
302720CH	320619	1	#6	16-14	Blue	.145	.133
302738CH	320565	1	#8	16-14	Blue	.145	.133
302746CH	36160	1	#10	16-14	Blue	.145	.133
302754CH	321045	1	1/4"	16-14	Blue	.169	.162
302762CH	328998	1	5/16"	16-14	Blue	.244	.167
302771CH	328999	1	3/8"	16-14	Blue	.284	.172
302789CH	35149	1	#6	12-10	Yellow	.182	.17
302797CH	35108	1	#8	12-10	Yellow20	.189	.171
302800CH	35109	1	#10	12-10	Yellow20	.189	.171
302818CH	35110	1	1/4"	12-10	Yellow33	.327	.218
302826CH	35111	1	5/16"	12-10	Yellow33	.327	.218

Spade longue lerminals												
Part No.	Product No.	Fig.	Stud Size	Wire (AWG)	Color 1	10	100					
302851CH	328394	2	#2	22-16	Red \$.21	\$.208	\$.185					
302869CH	327717	2	#4	22-16	Red26	.253	.225					
302877CH	34541	2	#6	22-16	Red20	.145	.133					
302885CH	32053	2	#8	22-16	Red21	.208	.185					
302893CH	32054	2	#10	22-16	Red21	.208	.175					
302906CH	35559	2	#6	16-14	Blue21	.208	.146					
302914CH	32059	2	#8	16-14	Blue21	.208	.185					
302922CH	321233	2	#8	16-14	Blue24	.236	.21					
302931CH	32060	2	#10	16-14	Blue24	.236	.146					
302949CH	326859	2	#6	12-10	Yellow42	.416	.37					

12-10

12-10

12-10

12-10

Yellow ......30

.327

.218

.268

.275

.24

.309

.256

3/8"

1/2"

#8

#10

Flanged .	Flanged Spade Tongue Terminals												
Part No.	Product No.	Fig.	Stud Size	Wire (AWG)	Color	1	10	100					
302973CH	324608	3	#2	22-16	Red	\$.28	\$.273	\$.243					
302981CH	32562	3	#6	22-16	Red	23	.227	.158					
302990CH	32498	3	#8	22-16	Red	50	.451	.438					
303001CH	320861	3	#6	16-14	Blue	24	.23	.159					
303010CH	320862	3	#8	16-14	Blue	24	.23	.204					
303028CH	320863	3	#10	16-14	Blue	23	.224	.199					
303036CH	325150	3	#6	12-10	Yellow	59	.493	.461					
303044CH	32510	3	#8	12-10	Yellow	25	.223	.19					
303052CH	324015	3	#10	12-10	Yellow	39	.288	.269					

Short Spi	Short Spring Spade Tongue Terminals												
Part No.	Product No.	Fig.	Stud Size	Wire (AWG)	Color	1	10	100					
303061CH	82927	4	#4	22-16	Red	\$.22	\$.209	\$.186					
303079CH	52929	4	#6	22-16	Red	25	.238	.164					
303087CH	52930	4	#8	22-16	Red	25	.238	.212					
303095CH	52931	4	#10	22-16	Red		.345	.258					
303108CH	52935	4	#6	16-14	Blue		.238	.164					
303116CH	52936	4	#8	16-14	Blue	28	.27	.24					

Short Spring Spade Tongue Terminals (Continued)												
Part No.	Product No.	Fig.	Stud Size	Wire (AWG)	Color	1	10	100				
303124CH	52937	4	#10	16-14	Blue	\$.28	\$.27	\$.24				
303132CH	52941	4	#6	12-10	Yellow	32	.31	.248				
303141CH	52942	4	#8	12-10	Yellow		.35	.282				
303159CH	52943	4	#10	12-10	Yellow	36	.351	.282				

Part No.         Product No.         Fig.         Description         Wire (AWG)         Color         1         10           303167CH         323994         5         Butt         26-22         Yellow         \$.39         \$.339         \$.339         \$.33175CH         320559         5         Butt         22-16         Red         .50         .496           303183CH         320562         5         Butt         16-14         Blue         .57         .496           303191CH         320570         5         Butt         12-10         Yellow         .85         .82	100
303175CH         320559         5         Butt         22-16         Red         .50         .496           303183CH         320562         5         Butt         16-14         Blue         .57         .496	
<b>303183CH</b> 320562 5 Butt 16-14 Blue	\$.317
	.356
303191CH 320570 5 Butt 12-10 Yellow 85 82	.295
12 10 101011 1102	.499
<b>303204CH</b> 32446 6 Knife disconn. 22-16 Red	.27
<b>303212CH</b> 32448 6 Knife disconn. 16-14 Blue	.27
<b>303221CH</b> 35762 6 Knife disconn. 12-10 Yellow <b>1.45 1.24</b>	1.11

Fast-On Receptacles											
Part No.	Product No.	Fig.	Size (in.)	Wire (AWG)	Color	1	10	100			
303239CH	60894-1	7	.110 x .032	22-18	Natural	\$.24	\$.232	\$.168			
303247CH	640923-1	7	.110 x .020	22-18	Red	22	.214	.163			
303255CH	640917-1	7	.187 x .020	22-18	Red	20	.162	.13			
303263CH	640909-1	7	.205 x .020	22-18	Red	22	.214	.163			
303271CH	640911-1	7	.205 x .032	22-18	Red	22	.214	.163			
303280CH	640903-1	7	.250 x .032	22-18	Red	20	.16	.13			
303298CH	640929-1	7	.110 x .020	16-14	Blue	22	.214	.163			
303301CH	640919-1	7	.187 x .020	16-14	Blue	22	.214	.163			
303319CH	640915-1	7	.205 x .032	16-14	Blue	22	.214	.163			
303327CH	640905-1	7	.250 x 0.32	16-14	Blue	20	.162	.16			
303335CH	42844-1	7	.250 x .032	14-12	Green	31	.30	.215			
303343CH	640907-1	7	.250 x .032	12-10	Yellow	25	.237	.166			

#### Vinyl Insulated Solderless Terminals

- Insulation thickness: .030"
- Funnel ramp entryTemperature to 105°C
- Use with crimping tool P/N 72995CH, pg 229
- · Sold in increments of 10, 100 or 1000

#### Ring & Spade Solderless Terminals

Part No.	Description	Stud Size	Wire (AWG)	Color	10	100	1000
103683CH	Ring solderless	#6	22-16	Red	\$.11	\$.07	\$.05
103587CH	Spade solderless	#6	22-16	Red	13	.06	.05
103595CH	Spade solderless	#8	16-14	Blue	12	.068	.06

#### Disconnect Solderless Terminals

Part No.	Description	Blade Size	Wire (AWG)	Color	10	100	1000
106921CH	Female	.187"	22-16	Red	\$.12	\$.07	\$.05
103667CH	Female	.25"	22-16	Red	12	.07	.05
109111CH	Female w/ hood	.25"	22-16	Red	17	.11	.055

#### 171-Pc. Solderless Terminal Kit

- · Clear, hinged plastic box Use crimping tool
- P/N 72995CH, pg 229



		Wire	Riage			Wire	Blade		
Qty.	Description	Gauge	Size	Qty.	Description	Gauge	Size	ı	
10	Male spade	22-16	1/4"	10	Ring term.	16-14	#10		
10	Male spade	16-14	1/4"	5	Ring term.	12-10	#10		
10	Fem. spade	22-16	1/4"	5	Ring term.	12-10	#14		
10	Fem. spade	16-14	1/4"	10	Spade term.	16-22	#6		
10	Ring term.	22-16	#6	10	Spade term.	16-22	#8		
10	Ring term.	22-16	#8	10	Spade term.	16-14	#10		
10	Ring term.	16-14	#10	10	Butt conn.	16-22	-		
15	Ring term.	16-14	#6	10	Butt conn.	16-14	-		
10	Ring term.	16-14	#8	5	Butt conn.	12-10	-		
					1	10	25		
Terminal kit (170 terminals and connectors) \$8.95 \$7.95 \$7.2									
	10 10 10 10 10 10 10 10	10 Male spade 10 Male spade 10 Fem. spade 10 Fem. spade 10 Ring term. 10 Ring term. 10 Ring term. 11 Ring term. 12 Ring term. 13 Ring term. 14 Ring term. 15 Ring term. 16 Ring term.	Oty.         Description         Gauge           10         Male spade         22-16           10         Male spade         16-14           10         Fem. spade         22-16           10         Fem. spade         16-14           10         Ring term.         22-16           10         Ring term.         22-16           10         Ring term.         16-14           15         Ring term.         16-14           10         Ring term.         16-14           10         Ring term.         16-14	Oty.         Description         Gauge         Size           10         Male spade         22-16         1/4"           10         Fem. spade         16-14         1/4"           10         Fem. spade         16-14         1/4"           10         Ring term.         22-16         #6           10         Ring term.         22-16         #8           10         Ring term.         16-14         #10           15         Ring term.         16-14         #6           10         Ring term.         16-14         #8	Oty.         Description         Gauge         Size         Oty.           10         Male spade         22-16         1/4"         10           10         Male spade         16-14         1/4"         5           10         Fem. spade         22-16         1/4"         10           10         Fem. spade         16-14         1/4"         10           10         Ring term.         22-16         #6         10           10         Ring term.         22-16         #8         10           10         Ring term.         16-14         #10         10           15         Ring term.         16-14         #6         10           10         Ring term.         16-14         #8         5	Oty.         Description         Gauge         Size         Oty.         Description           10         Male spade         22-16         1/4*         10         Ring term.           10         Male spade         16-14         1/4*         5         Ring term.           10         Fem. spade         22-16         1/4*         5         Ring term.           10         Fem. spade         16-14         1/4*         5         Ring term.           10         Ring term.         22-16         #6         10         Spade term.           10         Ring term.         22-16         #8         10         Spade term.           10         Ring term.         16-14         #10         10         Butt conn.           15         Ring term.         16-14         #6         10         Butt conn.           10         Ring term.         16-14         #8         5         Butt conn.	Oty.         Description         Gauge         Size         Qty.         Description         Gauge           10         Male spade         22-16         1/4*         10         Ring term.         16-14           10         Male spade         16-14         1/4*         5         Ring term.         12-10           10         Fem. spade         22-16         1/4*         10         Spade term.         12-10           10         Fem. spade         16-14         1/4*         10         Spade term.         16-22           10         Ring term.         22-16         #6         10         Spade term.         16-22           10         Ring term.         22-16         #8         10         Spade term.         16-14           10         Ring term.         16-14         #10         10         Butt conn.         16-22           15         Ring term.         16-14         #6         10         Butt conn.         16-14           10         Ring term.         16-14         #8         5         Butt conn.         12-10	Oty.         Description         Gauge         Size         Oty.         Description         Gauge         Size           10         Male spade         22-16         1/4"         10         Ring term.         16-14         #10           10         Male spade         16-14         1/4"         5         Ring term.         12-10         #10           10         Fem. spade         22-16         1/4"         5         Ring term.         12-10         #14           10         Fem. spade         16-14         1/4"         10         Spade term.         16-22         #6           10         Ring term.         22-16         #8         10         Spade term.         16-12         #8           10         Ring term.         16-14         #10         10         Butt conn.         16-22         -           15         Ring term.         16-14         #6         10         Butt conn.         16-14         -           10         Ring term.         16-14         #8         5         Butt conn.         12-10         -	

103683CH

103587CH



302834CH

302842CH 35151

302957CH 32588

32589

302965CH

35112

# Cable Connectors, Power Jacks and Plugs

#### **3M Spring Connectors**







285683CH

This simplifies selection of the right connector for a wide range of wiring jobs. There's also less inventory to manage, and a better chance you'll have the connector you need to do every job.

285683CH: 2#22 to 2#12AWG, orange with blue skirt; replaces the orange, blue, and gray wire nut style connectors as well as 70% of the yellow wire nut and wing style connectors

**285691CH**: 2#18 to 2#8 to 5#12 AWG, red with yellow skirt, replaces both red and yellow wing style connectors 285704CH: 4#14 to 2#6 to 3#8 AWG, blue with gray skirt, covers both the large blue and gray connectors

· Prepackaged: order in increments of 10 or 100

Part No.	Product No.	10	100	500
285683CH	3M O/B+	\$.084	\$.075	\$.071
285691CH	3M R/Y+	.132	.106	.10
285704CH	3M B/G+	.41	.37	.32

#### Wire Connectors







182511CH 140716CH

- · Material: UL approved nylon 66, 94V2
- Quick and secure method to splice control wires Strip wire before application
   Twist on type
- · Material: PVC with metal spring, except P/N 182449CH nylon 66, 94-2 and P/N 140716CH PE - metal inside

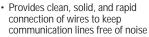
182449CH: UL/CSA approved

· Prepackaged: order in increments of 10, 100 or 1000

Part No.	Description	Color	10	100	1000
182449CH	Crimp 16-14 AWG*	Nat \$.0	6	\$.055	\$.049
182511CH	Wire-nut 16 AWG	Blue0	45	.04	.035
140716CH	Wire IDC 22-18 AWG	Red1	5	.14	.10

<sup>\*</sup> Requires crimping tool (P/N 72995CH, pg 229)

#### **Telecom Splice Connectors**



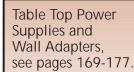
· Available to handle a wide range of conductor sizes



169754CH

· Prepackaged: order in increments of 10, 100 or 1000

Part No.	Color	Wire Gauge Co	No. of inductors	10	100	1000	
169746CH	Yellow	22-26	2	\$.11	\$.10	\$.08	
169754CH	Red	19-263Y	3Y	15	.14	.12	







#### Male & Female Power Jacks

- · Use with mating power plugs, below
- · Dimensions do not include barrel

Code

В

Mounting	Code
Panel	С
PCB	D
Panel & PCB	E
Cable	F

Terminals

PC board

Solder eyelet















\* Prepackaged: order in

Type 10

Type 7	Type 8	Type 9

		Type 6	Type 7		Type 8 Ty	pe 9	e 9 increments of 10, 100 or			
Part	Mfr. Cross	Dimensions	Type/	Circuit/	Mating		Pric	ing		
Number	Ref. No.	H x W x D (mm)	Mount	Terminal	Plug (below)	1	10	100	1000	
1.3 mm N	lale Jacks									
101194CH	PP024	6.0 x 6.0 x 9.0	8/D	1/B	1.3 mm female	\$.63	\$.49	\$.44	\$.39	
265421CH	420ECS	7.3 x 5.0 x 11.5	1/D	1/B	1.3 mm female	.69	.55	.49	.45	
2.1 mm N	lale Jacks				Loi	wer \$\$\$				
101178CH	PP014	10.9 x 9.0 x 14.5	1/D	1/A	2.1 mm female	\$.49	\$.44	\$.39	\$.35	
137672CH	PP013	10.9 x 9.0 x 14.5	5/D	3/A	2.1 mm female	.40	.36	.32	.29	
151589CH	DPJ-02IA	13.0 x 12.6 Dia.	7/C	1/A	2.1 mm female	1.09	.93	.70	.65	
151554CH	DPJ-026	15.1 x 8.0 Dia.	6/E	1/A	2.1 mm female	1.49	1.25	1.05	.89	
159610CH	PJ1014A	35.8 x 12.6 Dia.	10/F	3/A	2.1 mm female	1.49	1.25	1.09	.89	
2.5 mm N	lale Jacks	Blue Part No. = Limi	ted Quantit	y Available	S	ALE				
109428CH	PJ025PCB ❖	8.0 x 12.0 x 9.6	4/D	1/B	2.5 mm female	*	\$.19	\$.15	\$.11	
207714CH	HEC0470	11.0 x 9.0 x 14.5	1/D	1/B	2.5 mm female	.45	.35	.29	.25	
101186CH	PP014A	11.0 x 9.0 x 14.5	1/D	1/A	2.5 mm female	.59	.53	.48	.43	
151562CH	DPJ-026A	15.1 x 8.0 Dia.	6/E	1/A	2.5 mm female	1.49	1.24	1.13	.99	
159505CH	PJ1015A	35.8 x 12.6 Dia.	10/F	3/A	2.5 mm female	1.39	1.25	1.13	1.01	
202358CH	HD2388	17.0 x 12.0 Dia.	7/C	3/A	2.5 mm female	1.09	.98	.88	.79	
3.5 mm F	emale Jacks				Qu	antity SAVI				
101143CH	PJ0352	10.0 x 10.0 x 18.5	2/E	2/A	3.5 mm male	\$.35	\$.31	\$.25	\$.187	
109495CH	PJ035PM	10.5 x 9.0 x 8.8	3/C	2/A	3.5 mm male	.45	.40	.36	.32	
165729CH	PJ0354	8.9 x 5.7 Dia.	9/C	3/A	3.5 mm male	.69	.59	.49	.39	

#### Male & Female Power Plugs

- · Use with mating power jacks found in table, above
- · Solder eyelets 1mm diameter
- Threaded screw-on housing (strain relief)

Mfr. Cross Description

- Use with AC/DC wall adapters, pgs 174-177
- · Shield crimp tabs
- Use 24 AWG 2 conductor wire, P/N 100280CH. to make custom length power cables, pg 88



Strain Relief (A) Female Right Angle (B) Strain Relief (C)

I ai t	IVIII . CI USS	Description	Dillicitatoria (Illili)			1110	iiig	
Number	Ref. No.	Plug ID x OD (mm)	S (shaft) x L x ID (strain relief)	Туре	1	10	100	1000
Female P	lugs							
71191CH	PP137	1.3 x 3.5	9.6 x 43.9 x 4.8 (black)	1/A	\$.79	\$.71	\$.65	\$.59
191484CH	PP049W	2.1 x 5.5	9.6 x 43.9 x 4.5 (white)	1/A	.69	.62	.56	.50
28759CH	PP049	2.1 x 5.5 (P205)	8.5 x 41.4 x 4.6 (black)	1/A	.59	.49	.39	.29
147328CH	PP049L	2.1 x 5.5 (P205L)	14.0 x 46.4 x 4.6 (black)	1/A	.69	.62	.56	.50
138587CH	PJ021R	2.1 x 5.5 rt. angle	12.0 x 22.5 x 3.9 (black)	1/B	.79	.63	.55	.49
190537CH	PP109S	2.5 x 5.5 (P206S)	9.0 x 43.5 x 4.8 (black)	1/A	.39	.32	.29	.19
28767CH	PP109	2.5 x 5.5 (P206)	10.1 x 45.4 x 4.3 (black)	1/A	.59	.49	.39	.33
191492CH	PP109W	2.5 x 5.5	10.1 x 45.4 x 4.5 (white)	1/A	.39	.35	.32	.26
147336CH	PP109L	2.5 x 5.5 (P206L)	13.6 x 47.5 x 4.8 (black)	1/A	.75	.68	.61	.55
168241CH	PP109N	2.5 x 5.5	13.7 x 36.5 x 3.9 (black)	1/C	.59	.49	.43	.35
Male Plug	<b>I</b> S			SA	LE)			
101135CH	PJ1025	2.5 (P201)	11.1 x 49.0 x 4.3 (black)	2/A	\$.59	\$.53	\$.39	\$.29
147459CH	PJ1025L	2.5 (P201L)	10.5 x 48.0 x 5.0 (black)	2/A	.39	.27	.26	.22
101151CH	PJ1035	3.5 (P202)	13.8 x 51.8 x 4.2 (black)	2/A	.49	.38	.35	.29
1/73///CH	P 110351	3.5 (P202L)	1/1 1 v 51 0 v 5 2 (black)	2/Δ	40	38	35	20

Dimensions (mm)

#### Automobile Power Plug & Cord Assembly

· Screw assembly with strain relief

Part No.

- Accepts .25" x 1.25" fuse
- · Plugs directly into cigarette lighter 124759CH: 3' cord pigtail end











#### JAMECO ReliaPro

Jameco offers the industry's widest variety of off-the-shelf two-phase bipolar and four-phase unipolar stepper motors for your precision applications. Be sure to check out the wide selection of 2 to 200 VDC models below.

- · Bearing type: ball
- · Dielectric strength: 500V, 50Hz/minute
- 18" lead wires
- · Ambient temperature: -10°C to +55°C
- · Insulation resistance:  $100 M\Omega$  @ 500 VDC
- Use P/N 161998CH, pg 256, for shaft coupler

# **Bipolar and Unipolar Stepper Motors**



Quantity	SA	VE
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Bipolar (2-phase)







Fig. 8



						_	_													
Part No.	Product No.	Fig.	Drive System	Voltage (VDC)	Step Angle	Phase Resis. (Ohms)	Curr. (mA)	Phase Inductance (mH)	Detent Torque (g-cm)	Holding Torque (g-cm)	Mounting Hole Space Diagonal (in.)	Mounting Holes (in.)	Shaft Dia. (in.)	Shaft Length (in.)	Motor Dia. (in.)	Motor Height (in.)	Weight (lbs.)	1	Pricing 10	50
237526CH	42BYGH001	3	Bipolar	2	1.8	2.1	950	2.3	200	1700	1.22	0.10	0.20	0.95	1.67	1.34	0.50	\$16.49	\$14.02	\$10.51
237497CH	39BYG101-01	2	Bipolar	2.7	1.8	6.8	400	6.5	150	650	1.22	0.10	0.20	0.75	1.54	0.79	0.26	15.95	14.35	12.95
237420CH	35BYG002	3	Bipolar	3.2	1.8	4.8	800	3	15	50	1.02	0.10	0.20	0.83	1.38	1.02	0.30	15.95	13.56	10.17
237489CH	39BYG002	2	Bipolar	5	1.8	5	1000	_	150	1800	1.02	0.10	0.20	0.03	1.54	1.34	0.44	15.75	14.35	12.95
237737CH	42BY48H08	8	Bipolar	5	7.5	9.1	550		130	630	1.95	0.10	0.20	0.39	1.65	0.87	0.44	7.89	7.09	6.39
237577CH	57BYG061	4	: '	6	1.8	12	500	24	_	3569	1.86	0.14	0.12	0.83	2.29	1.61	1.00	29.95	26.95	24.25
237517CH 237518CH	42BYG017	2	Bipolar	6.3	1.8	15	420	16	150	1400	1.22	0.20	0.20	0.63	1.67	1.34	0.50	16.49	14.02	10.51
237454CH	39BYG201	2	Bipolar Bipolar	9.6	1.8	20	480	10	200	1000	1.22	0.10	0.20	0.20	1.54	0.98	0.30	16.95	14.02	10.81
237454CH 237411CH	35BYG005	2			1.8	20	500	_	1.5	1000	1.02	0.10	0.20	0.20	1.38	1.10	0.44	15.95	13.56	10.01
			Bipolar	12	1.8		400	36	220	2100	1.73	0.10		0.60		1.30	0.50	17.95	16.29	14.59
155459CH	42BYG023 <sup>*</sup>	2	Bipolar	12		30			200			0.10	0.20	0.60	1.70		0.50			
237471CH	39BYG401A	2	Bipolar	12	1.8	30	400	32		2100	1.22		0.20		1.54	1.34		19.49	17.55	15.79
237817CH	25BY2414	7	Bipolar	12	15	27	440	15.5	48	140	1.26	0.11	0.08	0.37	0.98	0.59	0.08	7.19	6.11	4.58
237462CH	39BYG401	2	Bipolar	14	1.8	31	400	32	200	2300	1.22	0.10	0.20	0.95	1.54	1.34	0.44	19.49	16.57	12.42
237446CH	35BYG008	2	Bipolar	24	1.8	1.3	1600	1	1	9	1.02	0.10	0.20	0.83	1.38	1.14	0.33	16.95	14.41	10.81
237569CH	57BYG009	4	Unipolar	2.4	1.8	1	2400	1.5	_	5914	1.86	0.20	0.25	0.83	2.29	2.20	1.40	32.29	27.45	20.58
237614CH	57BYGH801	6	Unipolar	3.3	1.8	2.2	1500	22	_	5608	1.86	0.20	0.25	0.83	2.24	2.01	1.32	35.19	29.91	22.43
237534CH	42BYGH102	5	Unipolar	3.6	1.8	3	1200	3.2	220	3000	1.22	0.10	0.20	0.95	1.67	1.57	0.50	17.95	16.15	14.55
237551CH	57BYG008	4	Unipolar	4	1.8	3.1	1300	4.4	_	4996	1.86	0.20	0.25	0.83	2.29	2.01	1.30	29.95	26.95	24.25
237593CH	85BYGH450	6	Unipolar	4.4	1.8	2.2	2000	_	_	21414	2.76	0.26	0.51	1.38	3.35	2.95	4.90	161.95	137.66	103.24
237622CH	57BYGH802	6	Unipolar	4.8	1.8	3.2	1500	2.9	_	8157	1.86	0.20	0.25	0.83	2.24	2.20	1.54	37.69	33.95	30.55
237606CH	57BYGH001	6	Unipolar	5	1.8	5	1000	_	_	3976	1.86	0.20	0.25	0.83	2.24	1.61	1.10	32.49	29.25	26.35
237825CH	25BY4801	7	Unipolar	5	7.5	10	500	_	45	110	1.38	0.14	0.08	0.35	0.98	0.56	0.07	6.95	5.91	4.43
237673CH	35BY48B06	1	Unipolar	5	7.5	10	500	65	65	250	1.65	0.13	0.08	0.45	1.38	0.59	0.15	6.49	5.85	5.25
237770CH	20BY20H01	7	Unipolar	5	18	10	500	_	18	75	0.98	0.09	0.06	0.34	0.79	0.71	0.05	5.59	5.09	4.55
223870CH	57BYG070	4	Unipolar	5.4	1.8	3.6	1500	6	977	8974	2.65	0.20	0.25	0.80	2.20	2.20	2.00	49.95	44.96	39.80
237631CH	57BYGH803	6	Unipolar	6.3	1.8	4.2	1500	_	_	14276	1.86	0.20	0.25	0.83	2.24	2.99	2.43	64.59	58.15	52.35
172558CH	42BYG014	2	Unipolar	8.5	1.8	19	450	13	150	1300	1.22	0.50	0.20	0.87	1.67	1.34	0.50	12.95 11.29	10.25	9.32
237711CH	42BY48H06	8	Unipolar	9	7.5	20	450	18.5	130	800	1.95	0.14	0.12	0.39	1.65	0.87	0.30	7.89	7.09	6.39
237788CH	25BY2402	7	Unipolar	9	15	50	180	14	48	100	1.26	0.13	0.08	0.35	0.98	0.59	0.08	6.95	5.91	4.43
237649CH	25BY2403	7	Unipolar	9	15	20	450	4.5	48	130	1.38	0.14	0.08	0.33	0.98	0.56	0.07	4.69	3.99	3.22
172646CH	42BYG205	4	Unipolar	9.6	1.8	75	480	15	220	2300	1.73	0.10	0.20	0.90	1.70	1.40	0.50	17.95	16.19	14.55
224021CH	42BYG016	2	Unipolar	12	1.8	75	160	40	150	900	1.73	0.10	0.20	0.70	1.70	1.30	0.50	16.95	15.25	13.75
155432CH	42BYG228	2	Unipolar	12	1.8	30	400	23	220	2000	1.73	0.10	0.20	0.90	1.70	1.50	0.50	17.95	16.29	14.59
237542CH	57BYG007	4	Unipolar	12	1.8	32	380	30	_	2957	1.86	0.20	0.25	0.83	2.29	1.61	1.00	25.95	22.06	17.08
238537CH	42BYGH404	5	Unipolar	12	1.8	30	400	25	250	3200	1.22	0.10	0.20	0.95	1.67	1.89	0.60	19.95	17.95	16.15
162026CH	57BYG084	4	Unipolar	12	1.8	20	600	22	725	6000	2.65	0.20	0.25	1.00	2.20	2.00	1.30	26.95	24.29	21.85
237972CH	28BYJ01A1	7	Unipolar	12	5.625	300	40	_	300	552	1.38	0.17	0.20	0.33	1.10	0.75	0.09	4.19	3.79	3.69
237981CH	28BYJ01C	7	Unipolar	12	5.625	300	40	_	350	552	1.38	0.14	0.12	0.20	1.10	0.78	0.10	4.19	3.56	3.55
237753CH	28BYJ012A	7	Unipolar	12	5.625	200	60	_	350	736	1.38	0.16	0.12	0.24	1.10	0.75	0.08	3.59	3.25	3.10
237745CH	28BYJ01A	7	Unipolar	12	5.625	200	60	_	350	736	1.38	0.16	0.12	0.24	1.10	0.75	0.10	3.59	3.25	3.10
237833CH	25BY4803	7	Unipolar	12	7.5	50	240	16	45	110	1.34	0.09	0.08	0.27	0.98	0.59	0.07	6.95	5.91	4.43
237681CH	35BY48B069	1	Unipolar	12	7.5	50	270	28	65	300	1.65	0.13	0.08	0.26	1.42	0.85	0.15	6.49	5.85	5.25
237892CH	42BY48B03	8	Unipolar	12	7.5	57	210	18	105	300	2.28	0.08	0.12	0.30	1.65	0.58	0.21	10.45	8.88	6.66
238158CH	35BY48BH10	1	Unipolar	12	7.5	42	286	25	90	400	1.65	0.13	0.08	0.26	1.38	0.85	0.19	6.89	6.15	4.75
237930CH	42BY48B14	8	Unipolar	12	7.5	50	240	_	145	450	1.95	0.14	0.12	0.39	1.65	0.59	0.22	8.95	7.61	5.85
213321CH	35BY48-27	1	Unipolar	12	7.5	15	800	68	90	460	1.96	0.13	0.08	0.25	1.38	0.83	0.20-	8.955.39	4.91	4.46
238131CH	35BY48BH05	1	Unipolar	12	7.5	15	800	10	90	460	1.65	0.13	0.08	0.26	1.38	0.85	0.19	6.89	6.15	4.75
237884CH	42BY48B02	8	Unipolar	12	7.5	40	300	28	130	500	N/A	N/A	0.12	0.30	1.65	0.57	0.21	10.45	8.88	6.66
238043CH	30BYJ05-PH	7	Unipolar	12	7.5	300	40	_	350	552	1.42	0.17	0.20	0.30	1.18	0.69	0.10	4.79	4.29	3.89
237761CH	30BYJ011	7	Unipolar	12	7.5	300	40	_	350	644	1.38	0.18	0.12	0.20	1.18	0.69	0.10	4.35	3.89	3.82

155459CH: Dual shaft



**Quantity SAVE** 

DC, gearhead & vibrating motors on pages 125-128

Stepper Motor Controllers on page 124 Bipolar and Unipolar Stepper Motors (Continued)





		Fig.				Phase		Phase	Detent	Holding	Mounting	Mounting	Shaft	Shaft	Motor	Motor			Pricing	
Part No.	Product No.	(see pg.) 103)	Drive System	Voltage (VDC)		Resis.	Curr. (mA)	Inductance (mH)	Torque (g-cm)	Torque (q-cm)	Hole Space Diagonal (in.)	Holes (in.)	Dia. (in.)	Length (in.)	Dia. (in.)	Height (in.)	Weight (lbs.)	1	10	50
238086CH	35BYJ03	7	Unipolar	12	7.5	400	40		450	828	1.65	0.16	0.20	0.33	1.42	0.67	0.12	\$4.95	\$4.21	\$3.99
238035CH	30BYJ03C	7		12	7.5	160	75	_	350	920	1.54	0.17	0.12	0.44	1.42	0.69	0.12	4.79	4.07	3.84
238060CH	35BYJ02	7		12	7.5	200	60	_	400	1104	1.65	0.16	0.20	0.33	1.42	0.67	0.13	4.95	4.21	3.99
238078CH	35BYJ02A	7		12	7.5	200	60	_	400	1104	1.85	0.16	0.20	0.33	1.38	0.69	0.13	4.95	4.21	3.99
238051CH	35BYJ01	7 ¦	Unipolar		7.5	130	92	_	350	1472	1.65	0.16	0.20	0.33	1.42	0.69	0.12	4.95	4.45	3.99
173180CH	30BYJ02AH*	7 1	Unipolar	12	7.5	200	60	49.5	400	736	1.42	0.14	0.19	0.36	1.18	0.68	0.10	11.49	9.77	7.32
237657CH	25BY2406	7	Unipolar	12	15	30	400	7.5	48	120	1.26	0.13	0.08	0.35	0.98	0.59	0.07	4.69	3.99	3.22
237956CH	42BY48H05	8	Unipolar	14	7.5	70	200	_	130	450	1.93	0.14	0.12	0.39	1.65	0.87	0.27	8.95	7.61	6.20
237438CH	35BYG007	5	Unipolar	15	1.8	28	400	_	12	70	1.02	0.10	0.20	0.83	1.38	1.10	0.37	16.95	14.41	10.81
237702CH	35BY48BH02	1	Unipolar	16.2	7.5	60	270	50	90	450	1.65	0.13	0.08	0.33	1.38	0.59	0.20	6.49	5.52	4.73
237665CH	25BY2407	7	Unipolar	16.2	15	85	190	19	48	100	1.26	0.16	0.08	0.49	0.98	0.56	0.10	4.69	3.99	3.22
237796CH	25BY2408	7	Unipolar	16.2	15	60	270	16	48	120	1.26	0.17	0.08	0.55	0.98	0.56	0.10	6.95	5.91	4.43
237841CH	25BY4806	7	Unipolar	20	7.5	50	400	16	45	155	1.26	0.13	0.08	0.49	0.98	0.56	0.10	6.95	5.91	4.43
237850CH	25BY4807	7	Unipolar	20	7.5	50	400	16	45	155	1.38	0.14	0.08	0.22	0.98	0.87	0.10	6.95	5.91	4.43
237868CH	25BY4808	7	Unipolar	20	7.5	50	400	16	45	155	1.38	0.14	0.08	0.22	0.98	0.87	0.10	6.95	5.91	4.43
237876CH	25BY4809	7	Unipolar	20	7.5	50	400	16	45	155	1.42	0.35	0.08	0.22	0.98	0.87	0.10	6.95	6.25	5.65
210391CH	STP42N196S	9	Unipolar	24	3.75	110	436	60	60	600	1.95	0.13	0.118	0.42	1.65	0.54	0.18-\$	3.951.99	1.85	1.68
238115CH	35BY48B08	1	Unipolar	24	7.5	75	320	38	65	270	1.65	0.13	0.08	0.35	1.38	0.59	0.15	6.89	5.86	5.17
238107CH	35BY48B07	1	Unipolar	24	7.5	11	240	70	65	330	1.65	0.13	0.08	0.26	1.38	0.59	0.15	6.89	6.20	5.17
238140CH	35BY48BH07	1	Unipolar	24	7.5	110	240	70	90	350	1.65	0.13	0.08	0.26	1.38	0.85	0.20	6.89	5.86	4.73
237690CH	35BY48BH01	1	Unipolar	24	7.5	165	145	85	90	400	1.65	0.13	0.08	0.33	1.38	0.59	0.19	6.49	5.52	4.73
237921CH	42BY48B08	8	Unipolar	24	7.5	75	320	33	145	600	1.95	0.14	0.12	0.39	1.65	0.59	0.20	8.95	7.61	6.20
210382CH	5620 🖸	10	Unipolar	24	7.5	100	436	60	40	380	1.67	0.13	0.078	0.40	1.38	0.58	0.18-4	1.99 .99	.93	.84
237905CH	42BY48B04	8	Unipolar	24	7.5	110	220	53	145	630	1.95	0.14	0.12	0.45	1.65	0.59	0.20	8.95	7.61	5.84
237913CH	42BY48B04M	8	Unipolar	24	7.5	120	200	57	145	630	1.95	0.09	0.12	0.45	1.65	0.59	0.22	8.95	8.06	6.20
237948CH	42BY48H02	8	Unipolar	24	7.5	48	500	_	130	630	1.95	0.14	0.12	0.39	1.65	0.87	0.30	8.95	7.61	6.20
237729CH	42BY48H07	8	Unipolar	24	7.5	85	280	78	130	780	1.95	0.14	0.12	0.39	1.65	0.87	0.27	7.89	6.71	6.20
237809CH	25BY2409	7	Unipolar	24	15	118	200	22	48	100	1.37	0.13	0.08	0.37	0.98	0.59	0.10	7.19	6.11	4.58
238123CH	35BY48BH03	1	Ompoidi	28.8	7.5	115	278	85	90	450	1.65	0.13	0.08	0.26	1.38	0.85	0.19	6.89	5.86	4.73
237585CH	110BYG450C	4	Unipolar	80-200	0.9/1.8	0.18	6000	2	3060	45,900	5.0	0.33	0.63	2.13	4.33	5.10	8.40	179.95	152.96	114.72

<sup>\* 173180</sup>CH: Gear ratio 85.25:1

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**Relia**Pro















Other Manufacturers -Limited Great Deals Phase Phase Detent Holding Mounting Shaft Shaft Motor Motor Pricing Mfr. Cross Drive Volt. Step Resis Curr. Inductance Torque Torque Hole Space Holes Dia. Length Dia. Height Part No. Ref. No. System (VDC) Angle (Ohms) (mA) (mH) Diagonal (in.) (in.) 10 50 (g-cm) (g-cm) (in.) (in.) (in.) (in.) Bipolar 117954CH LB82773-M1 5 7.5 800 100 1080 2.60 1.95 0.250 0.75 2.25 1.00 \$4.29 \$3.86 \$3.09 5017-935<sup>1</sup> 163395CH Bipolar 8.4 0.9 30 280 25 36 791 1.73 0.15 0.155 0.29 1.64 1.20 4.95 4.21 3.16 4017-806<sup>1</sup> 163408CH 9.2 1.8 240 1.73 0.15 0.155 0.23 2.95 2.65 Bipolar 38 52 36 664 1.66 1.25 2.35 105881CH SM4203<sup>2</sup> Bipolar 12 3.6 25 480 31 80 600 1.73 0.11 0.197 0.43 1.66 1.31 6.49 5.85 5.29 171601CH PF35T48L4<sup>3</sup> 7.5 350 9 40 680 1.68 0.14 0.078 0.47 1.38 0.58 4.99 4.24 Unipolar 3.18 238019CH | 30BYJ01C1 300 350 644

#### Servo Motors

**High-Efficiency Robotic Servo** 

Excellent power-to-weight ratio for robotic projects.

- · Supply voltage: 4.8-6 volts
- Speed: 16 seconds to 60°
- Torque: 49 oz.-in. @ 4.8V
- Can be operated by P/N 151001CH, pg 124

our be op	crated by 1714 1010	01011, pg 121		•
Part No.	Description	Size	1	10
157067CH	Robotic servo	0.8"W x 1.4"D x 1.6"H	\$19.95	\$17.95



Extremely powerful! Perfect for large robotic projects where power is a must.

- · Torque: 161 oz.-in.
- Speed: 19 seconds to 60°
- Can be operated by P/N 151001CH, pg 124

Part No.	Description	Power Supply	1	10
166351CH	Giant robotic servo	4.8-6 volts	\$49.95	\$44.95



Our enhanced website offers more products. Find it quickly and order it easily!



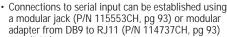
<sup>1 163395</sup>CH/163408CH: Dual shaft 2 105881CH: P/N 25216CH (IC, MC3479P, pg 33) bi-phase stepper motor driver can be used to operate; Use P/N 161998CH for shaft coupler, see pg 256

<sup>3 171601</sup>CH: Dual shaft w/ 10 tooth gear

#### Scott Edwards Electronics, Inc.

#### Serial Servo Controller Module

- · Controls 8 pulse-
- proportional servos
- Receives serially at 2400 or 9600 baud
- · Module is addressable, allowing two units to share the same line to control a total of 16 servos



Size (PCB): 1.9"L x 1.4"W • One-year warranty

Part No.	Description	1	10
151001CH	Mini SSC II	\$43.95	\$41.79

#### 32-Bit Stepper Motor Controller

- · Controls one bipolar stepper motor with
- 32-bit absolute position Interface to PC through RS232 or RS485 @ 2400-19,200bps
- · Full, half or wave step modes Multiple boards may share same
- serial line (RS485 only)
- 2 channel general purpose 8-bit A/D input port for reading 0 to 5V
- · 4-bit digital input for home limits
- Addressable up to 255 boards Size: 4.4"L x 2.3"H
- · Weight: 0.7 lbs.

Includes: Manual and sample code software

Description **153621CH** 32-bit controller ...... \$158.95 \$150.99

See our extensive motor selection on pages 122-123 & 125-128.

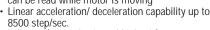
#### **Multi-Stepper Motor Control Board**

Shown w/ motors

- not included

- · Simultaneous/independent control of up to 16 stepper motors through a single serial port
- High-speed serial communication interface 9.6kbps-230.4kbps
- 11 analog channels, A/D converter, 12-bit resolution

· 24-bit position register; can be read while motor is moving



- Full step (monophasic and biphasic), half step and external driver modes
- Current-mode coil driver up to 2A/45V
- Automatic power down prevents motor overheating
- · External driver control outputs: step, direction and power control
- 26 digital I/O and two SPI interfaces for control of external devices
- 32 bits DDL interface for Windows® 9X, NT & Linux
- · Internal FIFO RAM (128 bytes) allows customized motion profiles
- Size: 7.7"L x 5.0"W x 1.0"H
   Weight: 0.7 lbs.

Part No.	Description	1	10
168727CH	Stepper motor control board	\$399.95	\$379.95

#### **Electric Motors and Control Techniques**

TAB Publishing Explains how different types of motors operate, and how electronic control devices can be used to improve efficiency in a wide range of applications. (294 pages, 1994)

• Size: 7.3" x 9.2" • Weight: 1.1 lbs.

Part No.	Description	Price
137162CH	Electric Motors & Control	\$24.95

#### **Sport232-ST One Axis Stepper Motor Controller and DAC Board**

- · Full, half steps (monophasic, bi-phasic)
- Shaft encoder capabilities for close loop applications
- 4-channels with signal conditioning 0 to 2.5V, 0 to 10V



 Linear acceleration/deceleration, profile movements through 128 bytes internal FIFO

Home, limit CW/CCW, abort, pulse and direction output signals

 Free 32-bit DLL for Windows 9x/NT/2000/XP, Linux and Labview

art No.	Description	INEW
E047CH	Cnort222 CT	

355047CH Sport232-ST ...... \$147.25 \$137.75

10

355186CH

355266CH

#### RMV856-ET Stepped **Motor Controller**

- CMOS, +5V device combines high performance with low cost
- Capable of generating step rates from 16 steps/sec to 8500 steps/sec using pulse and direction signals
- Internal step register counts up to 16 million steps per motion
- 8 Digital I/Os can be addressed individually by one command
- External programmable events: trigger waits, loops, program branches and stepping motions
- Supports programmable start rate, accel/decel, slew rate and absolute or relative control position
- Programmable stall detection feature controls positioning error • Internal or external direction control and separate limit switch for interfacing analog to digital or digital to analog converter

Part No.	Product No.	Pakage	1	10	50
355186CH	RMV856-ET	DIP-40	. \$48.45	\$44.05	\$40.00
355266CH	RMV856-ET	PLCC-44.	48.45	44.05	40.00

#### **Industrial Motion Controllers for Brush, Brushless and Stepper Motors**

All JR Kerr Automation Engineering controllers include integrated power amplifiers. Up to 32 controllers can be daisy-chained from a single full-duplex RS485 port. For RS-232 to RS-485 adapter see P/N 184971CH (below).





184989CH/323942CH: PIC-SERVO motor control board

Limit switch inputs, general purpose analog input, PWM,

DIR output for use with external amps



∩PONT€CH













184971CH: Z232-485 serial port adapter

Lets you operate the controllers above from any standard RS-232 port

#### 184997CH: PIC-STEP motor control board

- Integrated indexer and driver for 2 or 4 phase stepper motors
- Full/half step bipolar chopper drive, 2A per phase, 7.5 to 46VDC supply
- Trapezoidal position profiling, velocity mode, up to 50,000 steps per second
- · Limit switch inputs, general purpose outputs, step/dir outputs

for use with external drivers

#### 184962CH: PIC-I/O multifunction I/O control board

• 12 I/O bits software configurable as inputs or outputs

· One counter input

· Three 8-bit analog inputs, two PWM outputs with high current drivers

#### 184954CH: Simple sequencer stand-alone controller

- Programmable master controller for building stand-alone systems with the controllers above
- Plugs into a socket on the Z232-485 board (P/N 184971CH, above)

п				·	
l	Part No.	Description	Size (L" x W" x H")	1	10
l	184971CH	Z232-485	3.1 x 2.1 x 0.5	\$59.95	\$53.95
l	184997CH	PIC-STEP	3.1 x 2.1 x 0.9	159.95	143.95
l	184962CH	PIC-I/O	3.1 x 2.1 x 0.6	89.95	85.45
١	184954CH	Simple sequencer	2.1 x 1.0 x 0.4	59.95	53.95





conventional DC brush-type motors

interpolation using the PIC-SERVO CMC chipset

controllers to be controlled from a single serial port

 High current amplifier: 7A continuous, 10A peak, 12 to 48VDC supply Same features as 184989CH above but with support for linear & circular

For brush-type DC motors with 2 or 3 channel incremental encoders

P/N 323942CH RS485 serial interface allows up to 32 PIC-SERVO

• P.I.D. Servo control, trapezoidal position profiling, velocity mode, 32-bit resolution

Integrated 12 to 48VDC supply power amplifier @ 3A continuous, 6A peak

P/N 323951CH Amplifier capable of driving 6A continuously @ up to 48VDC

Part No.	Description	Size (L" x W" x H")	1	10
184989CH	PIC-SERVO	3.1 x 2.1 x 0.9	\$179.95	\$161.95
323942CH	KAE-TOVIO	3.1 x 2.1 x 0.9	149.95	134.95
185009CH	PIC-SERVO 3PH	3.1 x 3.1 x 1.0	239.95	215.95
323951CH	KAE-TOVIO	3.1 x 3.1 x 0.9	214.95	194.95



#### 1.5-112VDC Motors

Jameco has a broad selection of DC Motors available for immediate delivery! In fact, we're the only place in the country where you can buy so many types off-the-shelf. And because of our broad selection, major custom-design motor manufacturers send their customers to us! Be sure to check out all the products below.

NICHIBO NICHIBO

Typical applications: • RC cars and airplanes • Arcade games Motorized toys

Tire pumps

Vacuum cleaners

Paper shredders

- · Vending machines
- · Office automation products
- · Blow dryers

 Hair removers · Cordless power tools

Volume buyers save more with 100 piece orders!































			Nominal			aximum Eff							Pricing		$\overline{}$
Part Number	Product No.	Fig.	Voltage (VDC)	Range (VDC)	Current (Amps)		Torque (g-cm)	Efficiency	Terminal Type	Shaft "Dia.	Shaft "Length	Size (D" x L")	1	10	100
231917CH	FE-260-2670	5	1.5	1.5-3	0.66	3700	10.5	42.9	Solder	0.078	0.314	0.937 x 1.063	\$1.19	\$1.01	\$.76
231861CH	UE-260-2850	6	1.5		1.15	4260	13.4	34.9	Solder	0.078	0.314	0.944 x 1.063	1.29	1.10	.82
231853CH	UE-260-2838	6	1.5	1.5-2.4	1.57	5600	15.5	39.0	Solder	0.078	0.314	0.944 x 1.063	1.49	1.27	.95
232135CH	FF-050S-13130	3	2	2-4	0.11	3000	3	42.0	Solder	0.059	0.433	0.610 x 1.059	2.99	2.69	2.42
231909CH	FE-260-18130	5	3	1.5-4.5	0.36	4780	10.3	49.6	Solder	0.078	0.314	0.937 x 1.063	1.19	1.01	.76
231888CH	UE-260-20120	6	3	1.5-4.5	0.45	4780	12.9	49.8	Solder	0.078	0.314	0.944 x 1.063	1.49	1.27	.95
231790CH	PC-130F-18120	7	3	3-4.5	0.51	6260	8.1	35.6	Solder	0.078	0.377	0.803 x 0.984	2.49	2.12	1.59
231870CH	UE-260-2290	6	3	1.5-4.5	0.62	6400	12.9	47.1	Solder	0.078	0.314	0.944 x 1.063	1.49	1.27	.95
231925CH	FE-260-2295	5	3	1.5-4.5	0.63	6850	14	53.9	Solder	0.078	0.314	0.937 x 1.063	1.19	1.01	.76
232071CH	FC-280-2485	1	4.5	4.5-7.2	0.88	7820	26	52.7	Solder	0.078	0.472	0.944 x 1.200	2.09	1.78	1.33
232080CH	FC-280-2865	1	4.5	4.5-6	1.38	9970	30.4	50.1	Solder	0.078	0.472	0.944 x 1.200	2.09	1.88	1.69
231765CH	PC-130SF-15160	7	4.8	3-9	0.42	4960	16.6	42.6	Solder	0.078	0.377	0.803 x 0.984	2.49	2.12	1.59
231984CH	UC-260-14275	6	6	6-12	0.21	4150	13.1	45.8	Solder	0.078	0.314	0.944 x 1.063	1.79	1.52	1.14
231829CH	PC-280-16210	8	6	3-12	0.28	4260	18	47.6	Solder	0.078	0.433	0.944 x 1.200	2.99	2.54	1.91
231781CH	PC-130F-12240	7	6	3-9	0.25	6800	7	33.4	Solder	0.078	0.377	0.803 x 0.984	2.49	2.24	2.02
231992CH	UC-260-18160	6	6	3-9	0.57	7460	22.1	49.9	Solder	0.078	0.314	0.944 x 1.063	1.79	1.52	1.14
231811CH	PC-280-20125	8	6	3-9	0.57	7560	21.1	48.6	Solder	0.078	0.433	0.944 x 1.200	2.99	2.54	1.91
232063CH	FC-280-20120	1	6	4.5-9	0.60	7800	24.1	53.5	Solder	0.078	0.472	0.944 x 1.200	2.09	1.78	1.33
232143CH	FF-050S-11170	3	7	1.5-9	0.17	8500	7	51.3	Solder	0.059	0.433	0.610 x 1.059	2.99	2.54	1.91
232151CH	FF-050S-09250	3	8	5-11.5	0.11	6300	7	51.4	Solder	0.059	0.433	0.610 x 1.059	2.99	2.54	1.91
231802CH	PC-130F-10370	7	9	6-12	0.15	6410	8.5	43.9	Solder	0.078	0.377	0.803 x 0.984	2.49	2.12	1.59
231933CH	UC-280S-10450	9	12	12-24	0.11	2850	21.3	46.5	Solder	0.078	0.433	0.944 x 1.200	2.99	2.54	1.91
232012CH	MD5-12160	10	12	12-24	0.30	4000	34.3	39.1	Solder	0.091	0.622	1.082 x 1.279	2.25	1.91	1.43
231968CH	UC-260-09530	6	12	12-24	0.12	4030	12.5	36.7	Solder	0.078	0.314	0.944 x 1.063	1.79	1.52	1.14
231845CH	PC-280-10420	8	12	6-24	0.13	4270	14.5	43.6	Solder	0.078	0.433	0.944 x 1.200	2.99	2.54	1.91
231731CH	PC-130SF-09480	7		6-24	0.11	4800	12.3	49.6	Solder	0.078	0.377	0.803 x 0.984	2.09	1.89	1.69
231749CH	PC-130SF-09400	7	-	6-24	0.15	5130	14.3	42.5	Solder	0.078	0.377	0.803 x 0.984	2.49	2.12	1.59
231896CH	FE-260-08450	5	12	6-12	0.11	5560	10.3	46.6	Solder	0.078	0.314	0.937 x 1.063	1.19	1.01	.76
231773CH	PC-130F-09490	7	12	6-18	0.51	6260	8.1	39.1	Solder	0.078	0.377	0.803 x 0.984	2.49	2.12	1.59
232160CH	FF-050S-08220	3		9-18	0.09	6270	5	31.5	Solder	0.059	0.433	0.610 x 1.059	2.99	2.54	1.91
231757CH	PC-130SF-10315	7	12	6-18	0.25	6350	20	44.6	Solder	0.078	0.377	0.803 x 0.984	2.49	2.12	1.59
232055CH	FC-280-12280	1	12	6-12	0.26	6840	21.4	48.6	Solder	0.078	0.472	0.944 x 1.200	2.09	1.78	1.33
231976CH	UC-260-12335	6	12	6-12	0.24	7050	19.5	50.0	Solder	0.078	0.314	0.944 x 1.063	1.79	1.52	1.14
231837CH	PC-280-15265	8	12	6-12	0.30	7230	25	52.5	Solder	0.078	0.433	0.944 x 1.200	2.99	2.54	1.91
232004CH	UC-280S-19160	9	12	6-12	0.57	9000	46.6	63.4	Solder	0.078	0.433	0.944 x 1.200	2.55	2.17	1.63
232021CH	MD5-1885	10	12	6-18	0.74	9820	53.5	60.7	Solder	0.091	0.622	1.082 x 1.279	2.25	1.91	1.43
231950CH	UC-280S-20145	9	I	6-12	0.75	10000	55	64.0	Solder	0.078	0.433	0.944 x 1.200	2.55	2.17	1.63
232039CH	MD5-2070	10		6-12	1.20	12150	62.2	54.1	Solder	0.091	0.622	1.082 x 1.279	2.25	1.91	1.43
232127CH	MD5-2554AS-AA	2		6-12	1.70	17000	72.9	62.4	Quick Connect	0.091	0.512	1.083 x 1.279	4.29	3.65	2.73
232119CH	MD5-2450AS-AA	2	12	6-12	2.00	17200	77.5	55.9	Quick Connect	0.091	0.512	1.083 x 1.279	4.29	3.65	2.73
232047CH	MD5-2445	10	I	6-12	2.05	19850	79.7	66.0	Solder	0.091	0.622	1.082 x 1.279	2.25	1.91	1.43
231941CH	UC-280S-12285	9	- '	12 21	0.39	10300	54.4	62.4	Solder	0.078	0.433	0.944 x 1.200	2.99	2.54	1.91
232098CH	MD5-15120AS-AA	2	24	12-24	0.70	15100	66.7	61.5	Quick Connect	0.091	0.512	1.083 x 1.279	4.29	3.65	2.73
232101CH	MD5-1980AS-AA	2	24	12-24	1.43	22600	88.5	60.9	Solder	0.091	0.512	1.083 x 1.279	4.29	3.65	2.73
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238465CH	RF-310TA-11400 (CCW)	11	2.5	1-6	0.06	2190	3.3	_	Solder	0.078	0.369	0.962 x 0.712	\$5.35	\$4.55	\$3.41
238457CH	RF-300PA-11400 (CW)	12	3	1-3	0.07	2400	4.3	56.4	Wires	0.078	0.415	0.960 x 0.504	4.35	3.70	2.77
238511CH	RF-500TB-12560	13	6	1.5-12	0.08	2180	11.6	50.6	Solder	0.078	0.385	1.259 x 0.767	4.49	3.82	2.86
238431CH	EG-530AD-6B (CCW)	14	6	4.2-7.5	0.13	2400	8	_	Solder	0.078	0.307	1.377 x 0.984	5.39	4.58	3.44
238422CH	EG-530AD-6F (CW)	14	6	4.2-7.5	0.13	2400	8	_	Solder	0.078	0.307	1.377 x 0.984	5.39	4.58	3.44
238449CH	EG-530AD-9B (CCW)	14	9	6-11	0.09	2400	8	_	Solder	0.078	0.307	1.377 x 0.984	5.39	4.58	3.44
238490CH	EG-530YD-9B (CCW)	14	9	6.3-11.7	.13/.14	2000/4000	10	_	Solder	0.078	0.307	1.377 x 0.984	7.59	6.45	4.84
238502CH	EG-530KD-2B (CCW)	14	12	8.4-15.6	0.08	1600	10	_	Solder	0.078	0.307	1.377 x 0.984	5.99	5.09	3.82
238473CH	RF-370CA-15370	15	12	3-12	0.07	1970	16	61.4	Solder	0.078	0.346	0.960 x 1.213	5.55	4.72	3.54
238414CH	EG-530AD-2B (CW)	14	12	8.4-15	0.07	2400	60	_	Solder	0.078	0.307	1.377 x 0.953	4.49	3.82	2.86
238406CH	EG-530AD-2F (CCW)	14	12	8.4-15	0.07	2400	60	_	Solder	0.078	0.307	1.377 x 0.953	5.39	4.58	3.44
238481CH	EG-530YD-2B (CCW)	14	12	8.4-15	.13/.14	2000/4000	10	_	Solder	0.078	0.322	1.303 x 0.997	6.29	5.65	5.09

James Re	EXCLUSIV														
237391CH	29SYT003	4	13.5	13.5	13	18000	509	_	Quick Connect	0.125	1.003	1.141 x 2.283	\$5.95	\$5.35	\$4.85
237382CH	29SYT002	4	24	24	0.93	2680	178	_	Wire	0.100	0.334	0.787 x 1.89	7.19	6.47	5.82
237403CH	40SYT002	16¦	26	26	1.5	300	815	_	Quick Connect	0.196	1.021	1.57 x 3.85	25.95	23.35	20.99
237374CH	29SYT001	4	112	112	0.93	2680	178	_	Wire	0.100	0.334	1.15 x 1.89	7.19	6.11	4.58



MITSUMI





























181112CH







311976CH

154915CH/

177498CH

174692CH

295849CH

154923CH

211246CH

267231CH

206949CH

153656CH

267291CH

			Nominal	Voltage	@ Maximum Efficiency								Pricina		
Part Number	Product Number	Manufacturer	Voltage (VDC)	Range (VDC)		Speed (RPM)	Torque (g-cm)	Efficiency	Terminal Type	Shaft "Dia.	Shaft "Length	Size (D" x L")	1	10	100
311976CH	20519-34442	Johnson Electric	1.2	-	0.363	4692	130.4	55	0.08"/solder	0.08	0.33	1.00 x 1.20	\$1.25	\$1.09	\$.99
295849CH	RF-310T-11400	Mabuchi Motor	2.5	1-6	0.060	2190	3.3	_	0.06"/solder	0.08	0.89	0.96 x 0.71	1.49	1.34	1.21
154915CH	ST-130-12240 <sup>1</sup>	Star Motor	3	1.5-3	0.170	3588	7.4	55	0.09"/solder	0.08	0.37	0.79 x 1.13	1.09	.98	.86
154923CH	ST-130-22770 <sup>1</sup>	Star Motor	3	1.5-3	1.150	12500	10.3	40	0.09"/solder	0.08	0.37	0.79 x 1.13	.99	.84	.63
211246CH	RC-260RA-2670	Mabuchi Motor	4.5	3-4.5	1.430	15290	21.8	53	0.11"/solder	0.08	0.28	0.93 x 1.06	1.49	1.27	.95
267231CH	FRF-510-12620	Telco	6	3-12	0.030	2700	10.0	_	Wire w/ conn.	0.08	0.31	1.25 x 0.86	.99	.89	.79
177498CH	RC280RA-2485	Mabuchi Motor	7.2	3-14	1.180	14260	33.3	57	11"/solder	0.08	0.43	0.95 x 1.20	1.75	1.49	1.12
174692CH	21226-384221	Johnson Electric	12	9-14	0.015	3000	¦ _	_	0.11"/solder	0.08	0.69	0.97 x 1.19	2.49	2.15	1.59
181112CH	M25N-2 <b>۞</b>	Mitsumi	12	5-15	0.018	3000	18.0	_	11"/solder	0.08	0.26	0.97 x 1.30	2.29	2.05	1.85
206949CH	QJT360S14280	Nichibo	12	9-30	0.350	4930	44.5	52	0.11"/solder	0.09	0.45	1.09 x 1.30	1.69	1.45	1.09
153656CH	RS550PF	Mabuchi Motor <sup>2</sup>	12	6-15	1.400	6500	44.1	_	0.15"/solder	0.13	0.66	1.45 x 2.25	3.29	2.99	2.69
267291CH	SUN-555A-LMRK	Telco	24	_	0.150	4100	84	_	Wire w/ conn.	0.13	0.40	1.45 x 2.25	2.99	2.54	1.91
1			2												

<sup>1 154915</sup>CH/154923CH: Use bushing P/N 162392CH, pg 256

**☼** Blue Part No. = Limited Quantity Available











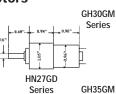
167038CH



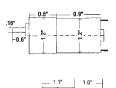
159417CH



155011CH



Series



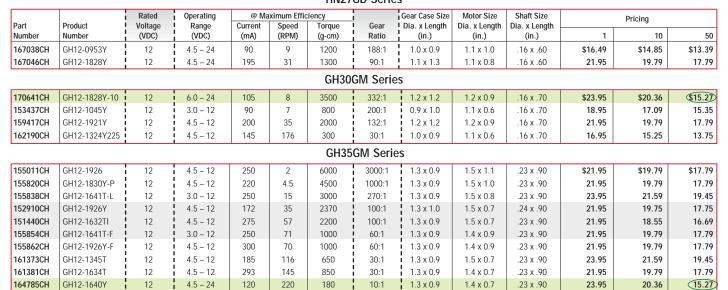
 Solder-type terminal · High torque construction

· Oil bearing design for long service life

• Insulation resistance:  $10M\Omega$ · Dielectric strength: 300VDC

**Quantity SAVE** 

#### **HN27GD Series**





GH12-1640Y00

GH24-1640Y06

GH24-1640Y19

176049CH

176031CH

176022CH

# Save Big! **Special Values!**

12 - 24

12 - 24

12 - 24

24

24

340

340

340

1.8

148

New Lower Prices = Orange, Sale Price Items = Yellow. Exceptional Quantity Discounts = Green

.23 x .90

.23 x .90

.23 x .90

1.5 x 1.1

1.4 x 0.7

1.4 x 0.7

18.66

19.79

21.95

21.95

15.52

17.79

17.79

3000:1

90:1

30:1

1.3 x 0.9

1.3 x 0.9

1.3 x 0.9

6000

1000

Manufacturer may vary



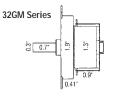




#### **6VDC and 12VDC Reversible Gear Head Motors**

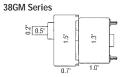
#### 32GM Series

		Rated	@ M:	aximum Effici	ency		Gear Case Size	Motor Size	Shaft Size	Pricing		
Part	Product	Voltage	Current	Speed	Torque	Gear	Dia. x Height	Dia. x Height	Dia. x Length			
Number	Number	(VDC)	(mA)	(RPM)	(g-cm)	Ratio	(in.)	(in.)	(in.)	1	10	50
253403CH	32-009	6	64	2.7	2500	450:1	1.9 x 0.41	1.3 x 0.90	0.3 x 0.7	\$17.95	\$16.15	\$14.55
253391CH	32-008	6	60	3	2000	400:1	1.9 x 0.41	1.3 x 0.90	0.3 x 0.7	17.95	16.15	14.55
253382CH	32-007	6	57	3.2	1800	377:1	1.9 x 0.41	1.3 x 0.90	0.3 x 0.7	17.95	16.15	14.55
253374CH	32-006	6	51	4	1680	300:1	1.9 x 0.41	1.3 x 0.90	0.3 x 0.7	17.95	16.15	14.55
253340CH	32-005	6	48	5	1600	240:1	1.9 x 0.41	1.3 x 0.90	0.3 x 0.7	17.95	16.15	14.55
253323CH	32-004	6	44	6	1500	200:1	1.9 x 0.41	1.3 x 0.90	0.3 x 0.7	17.95	16.15	14.55
253315CH	32-003	6	40	6.3	1350	190:1	1.9 x 0.41	1.3 x 0.90	0.3 x 0.7	17.95	16.15	14.55
253307CH	32-002	6	38	8	1200	150:1	1.9 x 0.41	1.3 x 0.90	0.3 x 0.7	17.95	16.15	14.55
253227CH	32-001	6	35	24	450	50:1	1.9 x 0.41	1.3 x 0.90	0.3 x 0.7	17.95	16.15	14.55





253227CH





**Quantity SAVE** 

#### 38GM Series

	000 001.00											
253534CH	38-010	12	97	24	7500	250:1	1.5 x 0.7	1.3 x 1.0	0.2 x 0.5	\$18.95	\$17.09	\$15.35
253526CH	38-009	12	93.5	36	5400	167:1	1.5 x 0.7	1.3 x 1.0	0.2 x 0.5	18.95	17.09	15.35
253518CH	38-008	12	87.5	40	4800	150:1	1.5 x 0.7	1.3 x 1.0	0.2 x 0.5	18.95	17.09	15.35
253500CH	38-007	12	82	60	3200	100:1	1.5 x 0.7	1.3 x 1.0	0.2 x 0.5	18.95	17.09	15.35
253497CH	38-006	12	80	66	2100	90:1	1.5 x 0.7	1.3 x 1.0	0.2 x 0.5	18.95	17.09	15.35
253489CH	38-005	12	76	110	1300	56:1	1.5 x 0.7	1.3 x 1.0	0.2 x 0.5	18.95	17.09	15.35
253471CH	38-004	12	74	120	1100	50:1	1.5 x 0.7	1.3 x 1.0	0.2 x 0.5	18.95	17.09	15.35
253462CH	38-003	12	68	180	800	33:1	1.5 x 0.7	1.3 x 1.0	0.2 x 0.5	18.95	17.09	15.35
253454CH	38-002	12	65	200	700	30:1	1.5 x 0.7	1.3 x 1.0	0.2 x 0.5	18.95	17.09	15.35
253446CH	38-001	12	61.8	600	350	10:1	1.5 x 0.7	1.3 x 1.0	0.2 x 0.5	18.95	17.09	15.35

#### JAMECO" **Relia**Pro

#### 1.3VDC and 3VDC Vibrating Motors

• Typical applications: cellular phones, pagers and toys





Fig. 3









Fig. 7

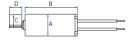
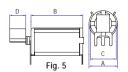


Fig. 3









			Operating Voltage	Operating	Rated	Lead	Motor Size (A x B)	Shaft Size (C x D)	Pricing		
Part No.	Mfr. Cross Ref. No.	Fig.	(VDC @ mA)	Range (VDC)	RPM @ VDC	Length (in.)	Dia." x L"	Dia." x L"	1	10	100
175062CH	OTL-7AL	1	1.3 @ 62	0.70 - 1.60	7000 @ 1.3	0.7	0.28 x 0.67	0.10 x 0.18	\$5.49	\$4.67	\$3.50
256356CH	7ZK642	3	1.3 @ 70	1.00 - 1.60	7500 @ 1.3	4.7	0.28 x 0.66	0.18 x 0.22	4.65	4.19	3.75
256372CH	7ZK631	3	1.3 @ 70	0.80 - 1.60	7500 @ 1.3	1.1	0.28 x 0.66	0.12 x 0.16	4.65	4.19	3.75
175396CH	OTL-4AL	2*	1.3 @ 65	0.70 - 1.60	8500 @ 1.3	0.8	0.16 x 0.55	0.15 x 0.23	6.49	5.52	4.14
256305CH	6ZK003	3	1.3 @ 80	0.85 - 1.60	8500 @ 1.3	1.0	0.23 x 0.39	0.10 x 0.10	3.29	2.99	2.69
256321CH	6ZK211	5	1.3 @ 80	0.80 - 1.60	8500 @ 1.3	PC Term	0.27 x 0.48	0.11 x 0.11	3.29	2.99	2.69
256268CH	5ZK019	6	1.3 @ 85	0.80 - 1.60	10000 @ 1.3	PC Term	0.20 x 0.40	0.10 x 0.07	5.29	4.79	4.29
256145CH	4ZK036	6	1.3 @ 80	0.85 - 1.60	11000 @ 1.3	PC Term	0.17 x 0.43	0.07 x 0.16	5.95	5.35	4.85
256049CH	4ZK041	3	1.3 @ 85	0.85 - 1.60	11000 @ 1.3	1.0	0.16 x 0.43	0.07 x 0.17	5.95	5.35	4.85
256241CH	5ZK011	3	1.3 @ 85	0.80 - 1.60	11000 @ 1.3	1.0	0.20 x 0.39	0.10 x 0.12	5.29	4.79	4.29
256364CH	7ZK692	3	3.0 @ 60	2.40 - 3.00	6500 @ 3.0	4.7	0.28 x 0.66	0.18 x 0.22	4.65	4.19	3.75
256381CH	7ZK681	3	3.0 @ 60	2.40 - 3.60	7500 @ 3.0	1.1	0.28 x 0.66	0.12 x 0.16	4.65	4.19	3.75
256313CH	6ZK053	3	3.0 @ 75	1.60 - 3.60	8500 @ 3.0	1.0	0.23 x 0.39	0.10 x 0.10	3.29	2.99	2.69
256330CH	6ZK261	5	3.0 @ 75	2.40 - 3.00	8500 @ 3.0	PC Term	0.27 x 0.48	0.11 x 0.11	3.29	2.99	2.69
256250CH	5ZK061	3	3.0 @ 75	2.40 - 3.00	10000 @ 3.0	1.0	0.20 x 0.39	0.10 x 0.12	5.29	4.79	4.29
256090CH	4ZK091	3	3.0 @ 80	2.40 - 3.60	11000 @ 3.0	1.0	0.16 x 0.43	0.07 x 0.17	5.95	5.35	4.85
256153CH	4ZK086	6	3.0 @ 70	1.30 - 3.60	12000 @ 3.0	PC Term	0.17 x 0.43	0.07 x 0.16	5.95	5.35	4.85

Other Manufacturers — Limited Great Deals											
190078CH	6CD-1201WL-00	4*	1.3 @ 80	_	7500 @ 1.3	1.1	0.24 x 0.47	0.10 x 0.22	\$6.55	\$5.57	\$4.18
185228CH	FM31E	7	3.0 @ 45	2.50 - 3.80	4500 @ 3.0	Solder pads	0.55 x 0.13	_	3.85	3.27	2.45

\*More details on page 128

EXCLUSIVE

262174CH

#### 1.3VDC 8,500 RPM **Vibrating Motor**

- · Typical applications: cellular phones, pagers, and toys
- Rated RPM: 8,500 @ 1.3VDC
- · Direction of rotation: clockwise
- · Operating voltage: 1.3V @ 65mA (typical) Quantity SAVE

149761CH

 Lead length: 0.75 • Size: (motor) 0.16"Dia. x 0.55"L (shaft) 0.15"Dia. x 0.23"L

Part No. Description \$5.52 \$4.14 175396CH Vibrating motor ...... \$6.49

#### Namiki

#### 1.3VDC 7,500 RPM **Vibrating Motor**

- Typical applications: cellular phones, pagers and toys
- Rated RPM: 7,500 @ 1.3VDC
- Clock-wise rotation
- 1.1" lead wires

262211CH

· Operating voltage: 1.3VDC @ 80mA

• Size: (motor) 0.47"L x 0.24"Dia. (shaft) 0.22"L x 0.10"Dia.

10 Part No. Description 190078CH \$5.57 \$4.18 Vibrating motor ...... \$6.55

**Quantity SAVE** 

# 120VAC Gear Motor

#### 6.0 RPM - 2.9 Watt

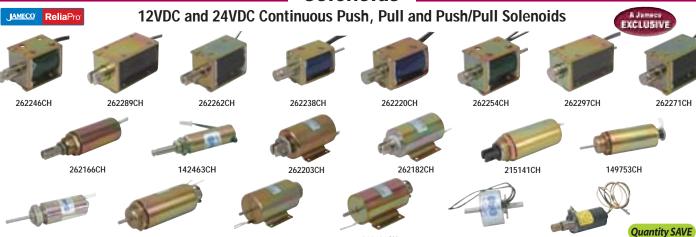
- Operating voltage: 120VAC @ 60Hz
- Torque: >3.6 kg-cm
- · Connector: 12" wires
- · Screw down tabs for mounting (2.3" diagonal mounting hole space)
- · Shaft diameter: 0.27" · Shaft length: 0.65"
- · Overall size: 2.0" Dia. x 1.0" thick
- · Typical applications: air conditioner turnleaf motor, microwave turnplate motor

Part No.	Mfr. Cross Ref. No.	1	10	100
213487CH	50TYZ	\$14.95	\$13.46	\$12.11

163803CH

145314CH

#### Solenoids



	Mfr. Cross		Voltage	Coil Res. (±10%)	Power Consump.	Holding Force		Size	Shaft	Wt.		Pricing	
Part No.	Reference No.	Туре	(VDC)	(Ohms)	(W)	(lbs. @ 20°C)	Stroke	L x Dia. (in.) †	Dia. (in.)	(lbs.)	1	10	100
262246CH	SMO-0520L12STD	Open frame-pull	12	90	1.6	0.16	0.24	0.8 x 0.6 x 0.5	0.200	0.04	\$5.19	\$4.65	\$4.19
262289CH	SMO-1253L12AA	Open frame-pull	12	26	6.0	0.90	0.24	2.0 x 1.2 x 1.1	0.470	0.50	11.89	10.69	9.65
262262CH	SMO-0837L12STD	Open frame-pull	12	36	4.0	1.10	0.24	1.5 x 1.0 x 0.8	0.310	0.21	7.29	6.56	5.90
262238CH	SMO-0415S12AA	Open frame-push	12	180	0.8	0.01	0.12	0.6 x 0.4 x 0.3	0.040	0.01	5.95	5.35	4.79
262220CH	SMO-0415L12AA	Open frame-push	12	180	0.8	0.01	0.12	0.6 x 0.4 x 0.3	0.160	0.01	4.79	4.29	3.89
262254CH	SMO-0520S12STD	Open frame-push	12	90	1.6	0.16	0.24	0.8 x 0.6 x 0.5	0.06/0.20*	0.04	6.39	5.75	5.15
262297CH	SMO-1253S12AA	Open frame-push	12	26	6.0	0.90	0.24	2.0 x 1.2 x 1.1	0.10/0.47*	0.50	13.09	11.79	10.59
262271CH	SMO-0837S12STD	Open frame-push	12	36	4.0	1.10	0.24	1.5 x 1.0 x 0.8	0.08/0.31*	0.21	8.39	7.59	6.85
262166CH	SMT-1325L12STD	Tubular-pull	12	36	4.0	0.11	0.47	1.0 x 0.5	0.200	0.05	9.95	8.95	8.15
142463CH	SMT-1130L12A	Tubular-pull	12	36	4.0	0.63	0.40	1.6 x 0.4	0.150	0.04	6.95	6.26	5.63
262203CH	SMT-3864L24STD	Tubular-pull	24	34	17.0	1.32	1.18	2.5 x 1.5	0.620	1.10	29.95	26.95	24.29
262182CH	SMT-3257L24STD	Tubular-pull	24	44	13.0	3.30	0.70	2.3 x 1.3	0.500	0.65	19.59	17.69	15.89
215141CH	SMT-2251L24AA	Tubular-pull	24	60	10.0	4.00	1.00	3.0 x 1.0	0.440	0.40	10.95	9.31	6.98
149753CH	SMT-1325S12A	Tubular-push	12	36	4.0	0.75	0.47	1.9 x 0.5	0.063	0.05	9.95	8.96	7.92
149761CH	SMT-1632S12A	Tubular-push	12	21	7.0	1.50	0.24	2.5 x 0.6	0.098	0.10	10.95	9.86	8.87
262174CH	SMT-2551S24STD	Tubular-push	24	58	10.0	1.32	0.70	2.0 x 1.0	0.120	0.40	15.95	14.39	12.99
262211CH	SMT-3864S24STD	Tubular-push	24	34	17.0	1.32	1.18	2.5 x 1.5	0.160	1.10	31.39	28.19	25.39
262191CH	SMT-3257S24STD	Tubular-push	24	44	13.0	6.80	0.70	2.3 x 1.3	0.160	0.65	19.95	17.95	16.19
145314CH	SMT1913S12A	Tubular-push/pull	12	89	2.0	1.12	0.16	1.2 x 0.7	0.110	0.05	9.95	8.96	8.06

262191CH

Other Manufacturers — Limited Great Deals													
163803CH	A420-067074-01	Tubular-push	12	43	3.4	0.75	0.17	2.0 x 0.6	0.156	0.10	\$9.95	\$8.46	\$6.34

<sup>†</sup>Open frame type dimensions: L" x W" x H"; \*Dual shaft

#### 12VDC Solenoid Valve

• Operating voltage: 12VDC • Current: 350mA

Solenoid valve

- Operational temperature: -29°C to 85°C
- Air leakage: 1c.c./min. max. 4psi
  0.250" quick disconnect terminal

0.230	quick disconnect terminals
Part No.	Description



## **Motor Kits**

See page 252 for our selection.





169834CH

Awesome Prices
Consistent Quality IAMECO Professional Grade **Backed by Jameco** 

#### Switchcraft<sup>®</sup>

#### **Button-Switch® &** Cord-Switch®

297300CH

#### 297300CH: Button-Switch®

- SPST-on (on)
- · Color: black
- · Mounting hole size: .469"
- Panel thickness: .297" max.
  Rating: 250mA, 30W maximum, AC, non-inductive load
- · Compatible with P/N 297502CH

#### 297502CH: Cord-Switch®

- Plastic insulation
- · Copper alloy plated housing and switch bushing
- · SPST-on (on) red pushbutton switch (same rating as P/N 297300CH)
- Maximum cable outside diameter: .375" Lower \$\$\$

Part No.	Product No.	Description	1	10	25
297300CH	913	Button-switch	\$2.55	\$2.36	\$2.18
297502CH	ED903	Cord-switch	10.49	8.55	8.43

# Free Technical Support

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Honeywell



#### **Pushbutton Binary Coded** Decimal (BCD) Switch

, JAMECO

Thumbwheel Binary Coded **Decimal (BCD) Switch** (2 switches shown) 26817CH

#### Pushbutton and Thumbwheel Switch Specifications:

Contact resistance: 100mΩ max.

26788CH (2 switches shown)

- 1/16" maximum panel thickness
- · Gold plated BE-CU alloy contacts
- 0.15A @ 50VAC/28VDC
- · Break before make
- · Switches snap together

EXCLUSIVE

- Operating temperature: -40°C to +85°C
- · Continuous load: 1 amp max.
- · Front snap-tab mounting with end plates



١		Mfr. Cross		Size	Character		Prici	ng	
١	Part No.	Ref. No.	Description	(L" x W" x D")	Height	1	10	50	100
	26788CH	MX72	10-position pushbutton	1.2 x 0.3 x 1.7	0.19"	\$5.69	\$5.15	\$4.65	\$4.15
	26761CH	MXEP2	Mounting end plates for 26788	1.2 x 0.2 x 1.1	_	1.15	.99	.89	.79
	26817CH	MX83	10-position thumbwheel	1.2 x 0.3 x 1.9	0.25"	4.49	3.95	3.55	3.19
	26770CH	MXEP3	Mounting end plates for 26817	1.2 x 0.2 x 1.3	_	1.05	.88	.84	.77
ч	-								

#### JAMECO ValuePro

#### Mini Pushbutton BCD Switch

- Operating temperature: -10°C to +65°C
   28VDC @ 10A · Break before make
- Switches snap together Pc

ositive I	ogic ("0"	all open	output)	

Part No.	Mfr. Cross Ref. No.	Description	Size (L" x W" x D")	Character Height	1	10	100
136557CH	MX061	10-position straight	.59 x .30 x 1.0	0.12"	\$3.79	\$3.41	\$3.06

#### **SPST Round Keylock Switches**

- Used in computer & other security systems
- Key removable from 2 positions
   Two keys
- Mounting hole = 0.75" except P/N 106649CH = 0.5

196648CH: all keys are alike Includes: Mounting nut

ı					4.17 (1.21)	100047011	10	)363 ICH/	17004001	1
		Mfr. Cross						Prid	ing	
l	Part No.	Ref. No.	No. Flat, Dia.	Length	Terminal	Voltage/Current	1	10	50	100
	106649CH	KS4B	2, .21"	.55"	Barrel	125VAC/3A	\$3.59	\$3.29	\$2.89	\$2.49
	105831CH	KS3B	2, .66"	1.48"	.25" quick connect	125VAC/6A	3.99	3.59	3.29	2.99
l	196648CH	3313E-M	2, .66"	1.48"	.25" quick connect	125VAC/6A	4.49	3.99	3.65	3.29



OMRON

#### Miniature Basic Switches

- 3 terminals: common; normally open; normally closed
- Size: 1.10"L x 0.40"W x 0.63"H





159581CH/187792CH 203545CH



159572CH

Dricina

					Contact			Service Life			FIICHI	
Part No	0.	Product No.	Manufacturer	Actuator Type	Form	Contact Rating	Resistance (initial)	(Mech./Elec.)	Terminal Type	1	25	50
15957	2CH	VS10N051C	Highly Electric	Hinge roller (0.60"L)	SPDT-NC	10A@125VAC, 10A@250VAC	15milliΩ (max.)	10M/100k	.183" quick connect	\$2.89	\$2.54	\$2.28
15958	B1CH	VS10N021C2	Highly Electric	Hinge lever (1.05"L)	SPDT-NC	10A@125VAC, 10A@250VAC	15milliΩ (max.)	10M/100k	.183" quick connect	2.45	2.25	1.99
20354	I5CH	V7-3E11D8-022	Honeywell	Hinge lever (1.07"L)	SPDT-NC	0.5A@125VAC, 10A@250VAC	_	10M/100k	.183" quick connect	1.59	1.45	1.35
18779	2CH	V-10G2-1C24K	Omron	Hinge lever (1.08"L)	SPDT-NC	0.1A@125VAC, 10A@250VAC	30milliΩ (max.)	50M/300k	.183" quick connect	2.45	2.25	1.99
18780	5CH	V-10G3-1C24K	Omron	Long hinge lever (2.01"L)	SPDT-NC	0.1A@125VAC, 10A@250VAC	30milliΩ (max.)	50M/300k	.183" quick connect	2.75	2.48	2.29



OMRON

#### Subminiature Basic Switches

- · Economical, subminiature basic switch offers long service life
- · Free from overtravel restrictions, permits easy setting
- Lead spacing: A = 0.35"; B= 0.29"
- Dimensions: 0.78"L x 0.25"W x 0.40"H









187709CH

187733CH

159599CH

				Contact		Contact	Service Life			Pricing	
Part No.	Product No.	Manufacturer	Actuator Type	Form	Contact Rating	Force	(Mech./Elec.)	Terminal Type	1	25	50
187709CH	SS-5GL	Omron	Hinge lever (0.6"L)	SPDT-NC	5A @ 125VAC, 3A @ 250VAC	50g	30M/200k	Solder	\$1.59	\$1.45	\$1.29
187733CH	SS-5GL2	Omron	Hinge roller (0.6"L)	SPDT-NC	5A @ 125VAC, 3A @ 250VAC	50g	30M/200k	Solder	1.25	1.09	.99
159599CH	SS0505A	Highly Electric	Hinge roller (0.7"L)	SPDT-NC	5A @ 125VAC, 3A @ 250VAC	45g	30M/200k	Solder	1.19	.99	.89

#### OMRON

#### D2F Series Subminiature Snap-Action Switches

Super compact, for PCB mounting. Ideal for a wide variety of applications from household appliances and office equipment to audio and communications equipment. • Dimensions: 0.50 L x 0.23 W x 0.26 H

· Flux penetration prevented by using an insert terminal and allowing a height difference at the case bottom

Long life span assured by high-precision dual spring reverse-action mechanism
 Contact form: SPST





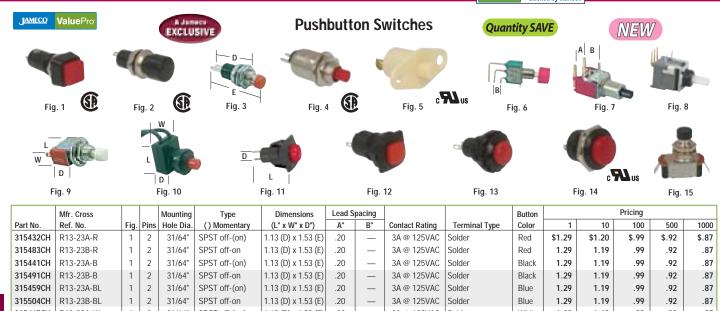
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188832CH

Part No.	Product No.	Actuator Type	Contact Type	Contact Force	Contact Rating (125VAC/30VDC)	1	25	50
188867CH	D2F-L	Hinge lever	General purpose	Standard (80g)	3A/2A	\$.89	\$.83	\$.79
188832CH	D2F-01F	Pin plunger	Microvoltage/current	Low force (75g)	0.1A/0.1A	.45	.39	.36







	IVIII . Cross			iviounting	Type	Dimensions	Leau 3	pacing			Bullon			riicing		
Part No.	Ref. No.	Fig.	Pins	Hole Dia.	() Momentary	(L" x W" x D")	A"	В"	Contact Rating	Terminal Type	Color	1	10	100	500	1000
315432CH	R13-23A-R	1	2	31/64"	SPST off-(on)	1.13 (D) x 1.53 (E)	.20	_	3A @ 125VAC	Solder	Red	\$1.29	\$1.20	\$.99	\$.92	\$.87
315483CH	R13-23B-R	1	2	31/64"	SPST off-on	1.13 (D) x 1.53 (E)	.20	_	3A @ 125VAC	Solder	Red	1.29	1.19	.99	.92	.87
315441CH	R13-23A-B	1	2	31/64"	SPST off-(on)	1.13 (D) x 1.53 (E)	.20	_	3A @ 125VAC	Solder	Black	1.29	1.19	.99	.92	.87
315491CH	R13-23B-B	1	2	31/64"	SPST off-on	1.13 (D) x 1.53 (E)	.20	_	3A @ 125VAC	Solder	Black	1.29	1.19	.99	.92	.87
315459CH	R13-23A-BL	1	2	31/64"	SPST off-(on)	1.13 (D) x 1.53 (E)	.20	_	3A @ 125VAC	Solder	Blue	1.29	1.19	.99	.92	.87
315504CH	R13-23B-BL	1	2	31/64"	SPST off-on	1.13 (D) x 1.53 (E)	.20	_	3A @ 125VAC	Solder	Blue	1.29	1.19	.99	.92	.87
315467CH	R13-23A-W	1	2	31/64"	SPST off-(on)	1.13 (D) x 1.53 (E)	.20	_	3A @ 125VAC	Solder	White	1.29	1.19	.99	.92	.87
315512CH	R13-23B-W	1	2	31/64"	SPST off-on	1.13 (D) x 1.53 (E)	.20	_	3A @ 125VAC	Solder	White	1.29	1.19	.99	.92	.87
315475CH	R13-23A-Y	1	2	31/64"	SPST off-(on)	1.13 (D) x 1.53 (E)	.20	_	3A @ 125VAC	Solder	Yellow	1.29	1.19	.99	.92	.87
315521CH	R13-23B-Y	1	2	31/64"	SPST off-on	1.13 (D) x 1.53 (E)	.20	_	3A @ 125VAC	Solder	Yellow	1.29	1.19	.99	.92	.87
315598CH	R13-40A-R	2	2	31/64"	SPST off-(on)	.98 (D) x 1.56 (E)	.20	_	3A @ 125VAC	Solder	Red	1.35	1.23	1.10	.99	.93
315619CH	R13-40B-R	2	2	31/64"	SPST off-on	.98 (D) x 1.56 (E)	.20	_	3A @ 125VAC	Solder	Red	1.59	1.45	1.33	1.21	1.13
315580CH	R13-40A-B	2	2	31/64"	SPST off-(on)	.98 (D) x 1.56 (E)	.20	_	3A @ 125VAC	Solder	Black	1.35	1.23	1.10	.99	.93
315601CH	R13-40B-B	2	2	31/64"	SPST off-on	.98 (D) x 1.56 (E)	.20	_	3A @ 125VAC	Solder	Black	1.59	1.45	1.33	1.21	1.13
26622CH	MS102	3	2	1/4"	SPST off-(on)	.65 (D) x 1.10 (E)	_	.14	3A @ 125VAC	Solder lugs	Red	.55	.50	.45	.35	.29
26649CH	MS103	3	2	1/4"	SPST on-(off)	.65 (D) x 1.10 (E)	_	.17	3A @ 125VAC	Solder lugs	Black	.55	.50	.45	.35	.29
315643CH	R13-81-R	4	2	13/64"	SPST off-(on)	.44 (D) x .78 (E)	.08	_	.5A @ 125VAC	PC terminal	Red	1.45	1.32	1.19	1.06	.94
315635CH	R13-81-B	4	2	13/64"	SPST off-(on)	.44 (D) x .78 (E)	.08	_	.5A @ 125VAC	PC terminal	Black	1.45	1.32	1.19	1.05	.94
315627CH	R13-52A-W 🌣	5	2	23/32"	SPST off-(on)	1.48 (D) x 1.69 (W)	.41	_	.75A @ 125VAC	M3 Screw	White	2.05	1.88	1.70	1.53	1.41
154879CH	PS11-123	6	3	1/4"	SPDT on-(on)	.50 x .27 x .37		.14	5A @ 125VAC	Solder, right angle	Red	1.99	1.89	1.79	1.69	1.59
71642CH	SWB210	7	2	7/32"	SPST off-(on)	.36 x .20 x .33	.20	.20	1A @ 120VAC	PC right angle	Black	2.19	1.99	1.78	1.60	1.39
202999CH	BB16	8	3	1/4"	SPST on-(on)	.39 x .35 x .35	.18	.10	0.1A @ 28VAC	Solder right angle	White	1.18	1.09	.90	.90	.90
121304CH	CK8121	9	3	1/4"	SPDT on-(on)	.52 x .27 x .38	_	.185	5A @ 125VAC	Solder lugs	White	3.59	3.25	2.95	2.65	2.39
28062CH	PB126	9	3	1/4"	SPDT on-(on)	.52 x .28 x .38	_	.185	5A @ 120VAC	Solder lugs	Red	3.69	3.35	2.99	2.69	2.45
355451CH	J1881	9	2*	3/8"	SPST on-(off) Alt†	.65 x .52 x .40	.25	_	2A @ 14VAC	5" Pigtail	White	1.19	1.09	.94	.83	.72
355469CH	J1882	9	2*	3/8"	SPST off-(on)	.65 x .52 x .40	.25	_	2A @ 14VAC	5" Pigtail	Red	1.09	.98	.88	.79	.70
174414CH	R13-510A	11	2	1/2"	SPST off-(on)	.67 (L) x .31 (D)	_	.167	3A @ 125VAC	Solder lugs	Red	.79	.78	.77	.74	.69
315900CH	R13-511A-R 🖸	12	2	1/2"	SPST off-(on)	1.00 (D)	.25	_	3A @ 125VAC	Solder	Red	3.09	2.82	2.54	2.29	2.06
315926CH	R13-511B-R <b>⊙</b>	12	2	1/2"	SPST off-on	1.00 (D)	.25	_	3A @ 125VAC	Solder	Red	3.29	2.99	2.70	2.32	2.19
315897CH	R13-511A-B 🖸	12	2	1/2"	SPST off-(on)	1.00 (D)	.25	_	3A @ 125VAC	Solder	Black	3.09	2.82	2.54	2.29	2.06
315918CH	R13-511B-B 🛇	12	2	1/2"	SPST off-on	1.00 (D)	.25	_	3A @ 125VAC	Solder	Black	3.29	2.99	2.70	2.42	2.19
315660CH	R13-502A-R/B ❖	13	2	1/2"	SPST off-(on)	1.02 (D)	.16	_	3A @ 125VAC	Solder	Red	1.85	1.67	1.51	1.36	1.24
315694CH	R13-502MA-R/B <sup>1</sup> ❖	13	2	1/2"	SPST off-(on)	1.02 (D)	.16	_	3A @ 125VAC	Solder	Red	2.29	2.10	1.89	1.70	1.56
315651CH	R13-502A-B/B 🖸	13	2	1/2"	SPST off-(on)	1.02 (D)	.16	_	3A @ 125VAC	Solder	Black	1.85	1.67	1.51	1.36	1.24
315686CH	R13-502MA-B/B <sup>1</sup> ❖	13	2	1/2"	SPST off-(on)	1.02 (D)	.16	_	3A @ 125VAC	Solder	Black	2.29	2.10	1.89	1.70	1.56
315766CH	R13-507A-R/B 😂	14	2	41/64"	SPST off-(on)	.80 (L)	.34	_	6A @ 125VAC	Solder	Red	1.65	1.50	1.35	1.22	1.11
315782CH	R13-507MA-R <sup>1</sup> ❖	14	2	41/64"	SPST off-(on)	.80 (L)	.34	_	6A @ 125VAC	Solder	Red	2.99	2.76	2.48	2.23	2.05
315758CH	R13-507A-B/B 😂	14	2	41/64"	SPST off-(on)	.80 (L)	.34	_	6A @ 125VAC	Solder	Black	1.65	1.50	1.35	1.22	1.11
315774CH	R13-507MA-B <sup>1</sup> ❖	14	2	41/64"	SPST off-(on)	.80 (L)	.34	–	6A @ 125VAC	Solder	Black	3.05	2.76	2.48	2.23	2.05

					Oth	ner Manufac	turers	. — Li	imited Grea	nt Deals						
154878CH	PS11-123	6	3	1/4"	SPDT on-(on)	.50 x .27 x .37		.14	5A @ 125VAC	Solder, right angle	Red	\$1.79	\$1.70	\$1.61	\$1.51	\$1.43
200774CH	TPI2SH8AQE	7	3	7/32"	SPDT off-(on)	.32 x .20 x .33	.20	.10	1A @ 120VAC	PC right angle	Black	4.79	4.35	3.65	2.75	1.99
22200CH	J1881	10	2*	3/8"	SPST on-off, Alt <sup>†</sup>	.65 x .52 x .40	.25	_	2A @ 14VDC	5" Pigtail	White	1.09	.98	.83	.67	.50
22218CH	J1882	10	2*	3/8"	SPST off-(on)	.65 x .52 x .40	.25	_	2A @ 14VDC	5" Pigtail	Red	.99	.88	.79	.71	.62
307889CH	DS133	15	2	29/64"	SPST off-(on)	1.03 x .56 x .46	_	_	10A @ 125VAC	Solder Lugs	Black	4.15	3.75	3.49	3.14	2.83
† Alt = altern	ate action *Le	ad wir	es	1 Metal	frames, nickel-plated	brass 🖸 Blu	ie Part No	. = Limite	d Quantity Available	9						

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# JAMECO ValuePro • 6A@125V or 3A@250V



#### **Miniature Pushbutton Switches**



Pricing

100

\$1.10

1.48

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.99

10

\$1.14

1.54

1.49

2.05

1.03

\$1.15

1.59

1.65

2.45

1.05



Epoxy sealedMaterial: Alkyd base (UL94V-0), stainless steel cover

	Mfr. Cross		Mounting	1	уре	Dimensions	Lead S	Spacing	Contact Rating		Button			Pricing		
Part No.	Ref. No.	Pins	Hole Dia.	() Mo	mentary	(D" x E")	A"	В"	(A @ VAC)	Terminal Type	Color	1	10	100	500	1000
315379CH	PA101A1-B/BL	2	1/4"	SPST	on-off	1.2 x 1.7	.185	_	6 @ 125	Solder	Black	\$2.79	\$2.53	\$2.28	\$2.05	\$1.93
315387CH	PA101A1-R/BL	2	1/4"	SPST	on-off	1.2 x 1.7	.185	_	6 @ 125	Solder	Red	2.79	2.53	2.28	2.05	1.93
315395CH	PA102A1-B/BL	2	1/4"	SPDT	on-on	1.2 x 1.7	.185	_	6 @ 125	Solder	Black	2.89	2.63	2.37	2.14	1.99
315408CH	PA102A1-R/BL	2	1/4"	SPDT	on-on	1.2 x 1.7	.185	_	6 @ 125	Solder	Red	2.89	2.63	2.37	2.14	1.99

Button

Color

Red

Black

Red

Black

Red

Thread

Diameter

190"

.354"

.268"

.468"

750"

# Mountain

#### **Pushbutton Switches**

• Contact rating: 3A @ 125VAC • 2-pin • Lead type: solder terminal

**164566CH /164638CH:** Contact rating: .5A @ 125VAC **164582CH /164671CH:** Contact rating: 1A @ 125VAC

Dimensions

73"L x 22"Dia

.88"L x .46"Dia.

1.1"L x .31"Dia

1.1"L x .59"Dia

.63"L x .66"Dia

106112CH: Contact rating: 3A @ 110VAC





#### Miniature Soft Touch Switches

Standard Touch Switches

Product No

MS402R

DS016B

DS412R\*

MS3120R

NS801MOR

			Туре		Lead	Thread	Button		Pric	ing	
Part No.	Product No.	Fig.	() Momentary	Dimensions	Spacing	Diameter	Color	1	10	100	500
164494CH	DS450R	1	SPST off-on	1.2"L x .59"Dia.	.175"	.387"	Red	\$2.09	\$2.05	\$1.97	\$1.88
164486CH	DS463R	1	SPST off-(on)	1.2"L x .59"Dia.	.175"	.387"	Red	2.15	2.05	1.95	1.85
164523CH	DS466R	2	SPST off-(on)	1.2"L x .60"Sq.	.160"	.383"	Red	1.95	1.87	1.81	1.74
196921CH	1969211	2	SPST off-on	1.6"L x 1.6"Sq.	.189"	.450"	Red	1.69	1.52	1.37	1.15
164558CH	DS471R	3	SPST off-(on)	1.2"L x .75"Sq.	.160"	.387"	Red	1.95	1.87	1.81	1.74

Lead

Spacing

078"

.220

.175"

.213

.275"





Figure 3

3 Figure 4





Figure 5

Figure 6

500

\$1.06

1.42

1.26

1.77

.98

10 "

Figure 7

Figure 8

164671CH 106112CH \* Solder lugs

Part No.

164566CH

164582CH

164638CH



#### **Pushbutton Switches**

Type

() Momentary

SPST off-(on)

SPST off-(on)

SPST off-(on)

SPST off-(on)

SPST off-(on)

#### IP and AV Series Pushbutton Switches

Fig.

4

5

Panel mount

#### 171758CH /171766CH: IP Series

- Initial contact resistance: 50mΩ max.
- Insulation resistance:  $1G\Omega$  min. @ 500VDC Mounting hole: 1/2"Dia. Dielectric strength: 1500Vrms min. Mechanical life: 1,000,000 cycles min.

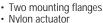


Initial contact resistance: 10mΩ max.
 Insulation resistance: 1000MΩ min.
 Mounting hole: 3/4"Dia.
 Dielectric strength: 1000Vrms min.

			Туре	[	Dimension	ıs	Lead	Contact	Terminal		Prici	ng	
Part No.	Product No.	Pins	() Momentary	L	W	D	Spacing	Rating	Туре	1	10	100	250
171758CH	IPR3SAD2	2	SPST off-(on)	0.82"	_	0.46"	0.19"	0.2A @ 250VAC	Solder	\$10.39	\$9.35	\$8.45	\$7.49
171766CH	IPC3SAD6	2	SPST off-(on)	0.82"	0.69"	0.46"	0.19"	0.2A @ 250VAC	Solder	10.39	9.35	8.45	7.49
171774CH	AV191003C900	2	SPST off-(on)	1.20"	_	0.87"	0.37"	0.2A @ 48VDC	Screw	11.95	10.84	9.75	8.79



#### Slide Switches



- Top actuation
- Phenolic insulated









Housing Lead Spacing Actuator Pricing Dimensions Lead Part No. Pins Description Material a D' Contact Rating Length Height 100 250 Type W" Α" B" 10 109170CH SPDT on-on PC mount Plastic 0.5A @ 50VDC 22 45 12 17' .15" \$ 31 \$.26 \$ 23 \$ 19 161816CH DPDT on-on<sup>†</sup> PC mount Plastic 38 .14 .13 .13 .11 0.1A @ 20VDC .11" .08" .59 .49 .39 .29

				Othei	r Man	ufact	urers	— <i>L</i>	imite	d Great Deals						
204142CH	3	SPDT on-on*	PC mount	Plastic	.77	.40	.37	_	.19	2.0A @ 28VDC	.19"	.17"	<del>\$0.39</del> \$.28	\$.16	\$.15	\$.13

† Plastic — flanges \*Side actuated # Plastic: 6/6 nylon; metal: steel zinc plated

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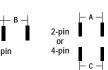
Color Code Legend New Sale Lower\$ QtySave

#### JAMECO ValuePro

- · Panel mount
- · Mounting hole diameter: 1/2'
- Full-size round lever for standard and metal
- Full-size flat lever for plastic
- Medium duty
- Keyed plate indicates switch position

Includes: Mounting hardware and on/off plate

#### Standard Toggle Switches



EXCLUSIVE















	Mfr. Cross				Dimensions	Lea	ad Spa	cing	Contact Rating		Lever			Pricing		
Part No.	Ref. No.	Fig.	Pins	Туре	L" x W" x D"	A"	В"	C"	(A @ VAC)	Lead Type	Туре	1	10	100	500	1000
76241CH	SWM128	1	2	SPST on-off	1.00 x .56 x .52	.23	—	_	4 @ 125 & 2 @ 250	Solder lugs	Round	\$1.49	\$1.29	\$1.19	\$.99	\$.89
76232CH	SWM125	2	2	SPST on-off	1.00 x .53 x .51	_	—	—	6 @ 125 & 3 @ 250	6" lead wire	Round	1.75	1.59	1.45	1.29	1.15
317817CH	R13-25A1-05	3	2	SPST on-off	1.14 x .59 x .62	.38	.38	_	10 @ 125 & 6 @ 250	Solder	Plastic	1.39	1.29	.85	.81	.80
317833CH	R13-25A2-05	3	2	SPST on-off	1.14 x .59 x .62	.38	.38	_	10 @ 125 & 6 @ 250	Solder	Metal	1.99	1.75	1.39	1.25	1.19
317809CH	R13-25A1-01	3	2	SPST on-off	1.14 x .59 x .62	.38	.38	—	10 @ 125 & 6 @ 250	.250" quick connect	Plastic	1.39	1.29	.85	.81	.80
317825CH	R13-25A2-01	3	2	SPST on-off	1.14 x .59 x .62	.38	.38	—	10 @ 125 & 6 @ 250	.250" quick connect	Metal	1.99	1.75	1.38	1.25	1.19
318001CH	R13-28A-01	4	2	SPST on-off	1.33 x .75 x .75	.45	.61	.45	15 @ 125 & 10 @ 250	.250" quick connect	Round	1.99	1.75	1.39	1.25	1.10
318019CH	R13-28A-05	4	2	SPST on-off	1.33 x .75 x .75	.45	.61	.45	15 @ 125 & 10 @ 250	Solder	Round	1.99	1.45	1.39	1.25	1.10
318027CH	R13-28A-06	4	2	SPST on-off	1.33 x .75 x .75	.45	.61	.45	15 @ 125 & 10 @ 250	M3 Screw	Round	2.25	1.99	1.55	1.39	1.25
317892CH	R13-25C1-05	3	3	SPDT on-on	1.14 x .59 x .62	.38	.38	_	10 @ 125 & 6 @ 250	Solder	Plastic	2.39	2.15	1.69	1.52	1.46
317913CH	R13-25C2-05	3	3	SPDT on-on	1.14 x .59 x .62	.38	.38	_	10 @ 125 & 6 @ 250	Solder	Metal	2.45	2.15	1.69	1.51	1.49
317884CH	R13-25C1-01	3	3	SPDT on-on	1.14 x .59 x .62	.38	.38	_	10 @ 125 & 6 @ 250	.250" quick connect	Plastic	2.85	2.55	2.00	1.79	1.72
317905CH	R13-25C2-01	3	3	SPDT on-on	1.14 x .59 x .62	.38	.38	—	10 @ 125 & 6 @ 250	.250" quick connect	Metal	2.45	2.15	1.69	1.51	1.49
318086CH	R13-28C-01	4	3	SPDT on-on	1.33 x .75 x .75	.45	.61	.45	15 @ 125 & 10 @ 250	.250" quick connect	Round	2.45	2.15	1.69	1.52	1.39
318094CH	R13-28C-05	4	3	SPDT on-on	1.33 x .75 x .75	.45	.61	.45	15 @ 125 & 10 @ 250	Solder	Round	2.45	2.15	1.69	1.52	1.39
318107CH	R13-28C-06	4	3	SPDT on-on	1.33 x .75 x .75	.45	.61	.45	15 @ 125 & 10 @ 250	M3 Screw	Round	2.89	2.55	1.99	1.79	1.75
317930CH	R13-25D1-05	3	3	SPDT on-off-on	1.14 x .59 x .62	.38	.38	_	10 @ 125 & 6 @ 250	Solder	Plastic	2.45	2.15	1.69	1.55	1.45
317956CH	R13-25D2-05	3	3	SPDT on-off-on	1.14 x .59 x .62	.38	.38	_	10 @ 125 & 6 @ 250	Solder	Metal	2.45	2.15	1.69	1.55	1.45
318123CH	R13-28D-01	4	3	SPDT on-off-on	1.33 x .75 x .75	.45	.61	.45	15 @ 125 & 10 @ 250	.250" quick connect	Round	2.45	2.15	1.69	1.52	1.47
318131CH	R13-28D-05	4	3	SPDT on-off-on	1.33 x .75 x .75	.45	.61	.45	15 @ 125 & 10 @ 250	Solder	Round	2.45	2.15	1.69	1.52	1.47
318140CH	R13-28D-06	4	3	SPDT on-off-on	1.33 x .75 x .75	.45	.61	.45	15 @ 125 & 10 @ 250	M3 Screw	Round	2.89	2.55	1.99	1.79	1.69
158060CH	JKN32	1	4	DPST on-off	1.00 x .56 x .52	.23	_	.23	4 @ 125 & 2 @ 250	Solder lugs	Round	1.15	1.05	.95	.85	.75
76260CH	SWM126	1	6	DPDT on-on	1.12 x .77 x .60	.30	.60	.40	5 @ 125 & 3 @ 250	Solder lugs	Round	1.75	1.59	1.45	1.29	1.15
158078CH	JKN3CC	1	6	DPDT on-on	1.19 x .76 x .73	.44	.59	.44	10 @ 125 & 6 @ 250	Screw lugs	Round	1.75	1.59	1.29	.99	.85
317850CH	R13-25B1-05	3	6	DPDT on-on	1.14 x .59 x .62	.38	.38	—	10 @ 125 & 6 @ 250	Solder	Plastic	3.75	3.35	2.61	2.34	2.25
318043CH	R13-28B-01	4	6	DPDT on-on	1.33 x .75 x .75	.45	.61	.45	15 @ 125 & 10 @ 250	.250" quick connect	Round	3.75	3.35	2.59	2.35	2.09
318051CH	R13-28B-05	4	6	DPDT on-on	1.33 x .75 x .75	.45	.61	.45	15 @ 125 & 10 @ 250	Solder	Round	3.75	3.35	2.59	2.35	2.09
318060CH	R13-28B-06	4	6	DPDT on-on	1.33 x .75 x .75	.45	.61	.45	15 @ 125 & 10 @ 250	M3 Screw	Round	4.59	4.15	3.19	2.89	2.75
317972CH	R13-25E1-05	3	6	DPDT on-off-on	1.14 x .59 x .62	.38	.38	_	10 @ 125 & 6 @ 250	Solder	Plastic	3.75	3.35	2.61	2.34	2.25

317972CH	R13-25E1-05	3	6	DPDT on-off-on	1.14 x .59 x .62	.38	.38	_	10 @ 125 & 6 @ 250	Solder	Plastic	3.75	3.35	2.61	2.34	2.25
	Other Manufacturers — Limited Great Deals															
76259CH	SWM126	1	6	DPDT on-on	1.12 x .77 x .60	.30	.60	.40	5 @ 125 & 3 @ 250	Solder lugs	Round	\$1.59	\$1.45	\$1.29	\$1.15	\$1.05

# We're Listening to **Your Requests**

Email us 24/7 at NewProducts@Jameco.com with suggestions for products you'd like to see in future catalogs.



Need an assortment of switches? Try our Switch Kit on page 135.

# **Plunging into Customer Satisfaction!**

A long time ago in a test lab far, far away, I needed to take a prototype multi-drop I/O card designed by another engineer and interface it into my Supervisor Control and Data Acquisition (SCADA) system. Having spent the previous 4 months debugging, testing and finalizing the SCADA system design, I thought the I/O card integration should be a snap.

Yep, I gave myself two days to test the system with the I/O card. I could configure the card in 15 minutes (OK, I'd get a cup of coffee too!), plug it into the PC, and run my test suite. Then I'd have the next day and a half to debug any issues and get more coffee...

Then I got a taste of what it's like to be the customer. First test with JP01 open, then close JP43 and JP44 and test again. Next test with

Once when I was pulling off a shorting block, it seemed to slip from my fingers and fall into a small unreachable crevice. Tests failed on numerous occasions because the plug wasn't properly aligned over the header pins. Time and more

time wasted for lack of a good remedy.

Nowadays, I refuse to go

through that torment. First off, there are shorting plugs with pull-tabs or handles on the end to help you properly grip these tiny devices. On dense boards, you should even consider using plunger switches. These handy compact devices replicate the jumper's switching function without risking misalignment or loss of a shorting plug. And at just ten cents a piece in unit quantities, they add almost no incremental cost.

Now think about this from your customer's perspective... Did they lose time setting up your product because the jumpers weren't properly seated? Did they have to go out and find more shorting plugs because you didn't supply enough? Will that frustrated customer come back? Try the plunger switches and help them understand why your product stands out in the crowd! See page 135.

Practical Practices Money Saving Tips for the Engineer





#### JAMECO Value Pro

· Mounting hole diameter: 1/4" Includes: Mounting hardware









**Miniature Toggle Switches** 





A Jamess EXCLUSIVE





**Quantity SAVE** 

Fig. 1

Fig. 4

Fig. 5 c**911**us

c**FM**us Fig. 6 Fig. 7

	Mfr. Cross			Туре	Dimensions	Le	ad Spaci	ina	Contact Rating		Lever			Pricing		
Part No.	Ref. No.	Fig.	Pins	() Momentary	L" x W" x D"	A"	B"	C"	(A @ VAC)	Lead Type	Туре	1	10	100	500	1000
76523CH	JMT113	1	2	SPST on-off	.52 x .32 x .38	_	.185	_	6 @ 125 & 3 @ 250	Solder lugs	Round	\$1.15	\$1.03	\$.93	\$.75	\$.65
317227CH	TD101A1	1	2	SPST on-off	.51 x .28 x .36	_	.185	_	10 @ 125 & 6 @ 250	Solder	Round	1.95	1.89	1.81	1.75	1.33
317286CH	TD101F1	2	2	SPST on-off	.51 x .28 x .36	_	.185	_	10 @ 125 & 6 @ 250	Solder	Flat	1.99	1.96	1.88	1.81	1.38
21936CH	JMT123	1	3	SPDT on-on	.52 x .32 x .38	_	.185	_	5 @ 125 & 2 @ 250	Solder lugs	Round	1.15	1.03	.93	.75	.65
317235CH	TD102A1	1	3	SPDT on-on	.51 x .28 x .36	_	.185	_	10 @ 125 & 6 @ 250	Solder	Round	2.09	2.05	1.98	1.90	1.45
317294CH	TD102F1	2	3	SPDT on-on	.51 x .28 x .36	_	.185	_	10 @ 125 & 6 @ 250	Solder	Flat	2.19	2.15	2.07	1.99	1.52
21910CH	JMT121	1	3	SPDT on-off-on	.52 x .32 x .38	_	.185	_	5 @ 125 & 2 @ 250	Solder lugs	Round	1.35	1.25	1.09	.95	.85
317243CH	TD103A1	1	3	SPDT on-off-on	.51 x .28 x .36	_	.185	_	10 @ 125 & 6 @ 250	Solder	Round	2.35	2.27	2.18	2.09	1.95
317307CH	TD103F1	2	3	SPDT on-off-on	.51 x .28 x .36	_	.185	_	10 @ 125 & 6 @ 250	Solder	Flat	2.39	2.34	2.25	2.16	1.65
22832CH	LFH123	2	3	SPDT on-on	.52 x .28 x .36	_	.185	_	5 @ 125 & 2 @ 250	Solder lugs	Flat	1.15	1.05	.95	.85	.75
75854CH	SWM132	1	3	SPDT on-on	.52 x .32 x .38	_	.185	_	6 @ 125 & 3 @ 250	Solder lugs	Round	1.29	1.16	1.04	.94	.69
317260CH	1MS5T1B	1	3	SPDT on-off-(on)	.51 x .28 x .36	_	.185	_	10 @ 125 & 6 @ 250	Solder	Round	2.35	2.27	2.18	2.09	1.95
317323CH	1MS5T6B	2	3	SPDT on-off-(on)	.51 x .28 x .36	_	.185	_	10 @ 125 & 6 @ 250	Solder	Flat	2.39	2.34	2.25	2.16	1.65
75889CH	SWM129	1	3	SPDT (on)-off-(on)	.52 x .32 x .38	_	.185	_	6 @ 125 & 3 @ 250	Solder lugs	Round	1.99	1.85	1.55	1.09	.95
317251CH	1MS4T1B	1	3	SPDT (on)-off-(on)	.51 x .28 x .36	_	.185	_	10 @ 125 & 6 @ 250	Solder	Round	2.35	2.27	2.18	2.09	1.95
317315CH	1MS4T6B	2	3	SPDT (on)-off-(on)	.51 x .28 x .36	_	.185	_	10 @ 125 & 6 @ 250	Solder	Flat	2.45	2.39	2.31	2.21	1.70
26331CH	MPC123	1	3	SPDT on-on	.52 x .32 x .37	_	.185	_	6 @ 125 & 3 @ 250	PC straight	Round	1.39	1.25	1.12	.95	.78
26315CH	MPC121	1	3	SPDT on-off-on	.52 x .32 x .37	_	.185	_	5 @ 125 & 2 @ 250	PC straight	Round	1.29	1.15	1.05	.95	.75
71597CH	SWM148	3	3	SPDT on-on	.52 x .32 x .38	_	.185	.20	5 @ 125 & 2 @ 250	PC right angle	Round	1.19	1.09	.91	.73	.55
75871CH	SWM145	4	3	SPDT on-on	.52 x .32 x .38	_	.185	.20	6 @ 125 & 3 @ 250	PC right angle	Round	1.49	1.35	1.09	.86	.79
317278CH	1MS2T1B	1	3	SPDT on-(on)	.51 x .28 x .36	_	.185	_	10 @ 125 & 6 @ 250	Solder	Round	2.09	2.05	1.98	1.90	1.45
317331CH	1MS2T6B	2	3	SPDT on-(on)	.51 x .28 x .36	_	.185	_	10 @ 125 & 6 @ 250	Solder	Flat	2.19	2.15	2.07	1.99	1.52
317403CH	TD201A1	5	4	DPST on-off	.51 x .47 x .36	.20	.185	_	10 @ 125 & 6 @ 250	Solder	Round	4.19	3.62	2.99	2.76	2.64
317462CH	TD201F1	6	4	DPST on-off	.51 x .47 x .36	.20	.185	_	10 @ 125 & 6 @ 250	Solder	Flat	5.49	4.74	3.94	3.62	3.46
22841CH	LFH221	6	6	DPDT on-off-on	.52 x .52 x .38	.20	.185	_	3 @ 125 & 1 @ 250	Solder lugs	Flat	1.45	1.35	1.19	1.09	.95
21979CH	JMT223	5	6	DPDT on-on	.52 x .52 x .38	.20	.185	_	5 @ 125 & 2 @ 250	Solder lugs	Round	1.49	1.29	1.15	.99	.59
22859CH	LFH223	6	6	DPDT on-on	.52 x .52 x .38	.20	.185	_	5 @ 125 & 2 @ 250	Solder lugs	Flat	1.29	1.19	1.05	.95	.85
75900CH	SWM133	5	6	DPDT on-on	.52 x .52 x .38	.20	.185	_	6 @ 125 & 3 @ 250	Solder lugs	Round	1.49	1.35	1.25	.99	.85
317411CH	TD202A1	5	6	DPDT on-on	.51 x .47 x .36	.20	.185	_	10 @ 125 & 6 @ 250	Solder	Round	4.19	3.62	2.99	2.76	2.64
317471CH	TD202F1	6	6	DPDT on-on	.51 x .47 x .36	.20	.185	_	10 @ 125 & 6 @ 250	Solder	Flat	5.49	4.74	3.94	3.62	3.46
317454CH	1MD2T1B	5	6	DPDT on-(on)	.51 x .47 x .36	.20	.185	_	10 @ 125 & 6 @ 250	Solder	Round	7.89	7.16	6.72	6.24	5.97
317518CH	1MD2T6B	6	6	DPDT on-(on)	.51 x .47 x .36	.20	.185	_	10 @ 125 & 6 @ 250	Solder	Flat	7.39	7.05	6.65	6.35	5.99
21952CH	JMT221	5	6	DPDT on-off-on	.52 x .52 x .38	.20	.185	_	6 @ 125 & 3 @ 250	Solder lugs	Round	1.29	1.16	1.04	.89	.75
317420CH	TD203A1	5	6	DPDT on-off-on	.51 x .47 x .36	.20	.185	_	10 @ 125 & 6 @ 250	Solder	Round	4.79	4.13	3.44	3.16	2.99
317489CH	TD203F1	6	6	DPDT on-off-on	.51 x .47 x .36	.20	.185	_	10 @ 125 & 6 @ 250	Solder	Flat	5.99	5.17	4.31	3.95	3.78
317446CH	1MD5T1B	5	6	DPDT on-off-(on)	.51 x .47 x .36	.20	.185	_	10 @ 125 & 6 @ 250	Solder	Round	4.99	4.30	3.58	3.30	3.14
317500CH	1MD5T6B	6	6	DPDT on-off-(on)	.51 x .47 x .36	.20	.185	_	10 @ 125 & 6 @ 250	Solder	Flat	7.39	7.05	6.39	5.99	5.89
75951CH	SWM130	5	6	DPDT (on)-off-(on)	.52 x .52 x .38	.20	.185	_	6 @ 125 & 3 @ 250	Solder lugs	Round	1.49	1.35	1.25	.99	.89
317438CH	1MD4T1B	5	6	DPDT (on)-off-(on)	.51 x .47 x .36	.20	.185	_	10 @ 125 & 6 @ 250	Solder	Round	4.79	4.30	3.58	3.30	3.14
317497CH	1MD4T6B	6	6	DPDT (on)-off-(on)	.51 x .47 x .36	.20	.185	_	10 @ 125 & 6 @ 250	Solder	Flat	5.99	5.17	4.30	3.95	3.78
26366CH	MPC223	5	6	DPDT on-on	.52 x .52 x .38	.20	.185	_	5 @ 125 & 2 @ 250	PC straight	Round	1.49	1.35	1.25	.99	.89
26358CH	MPC221	5	6	DPDT on-off-on	.52 x .52 x .38	.20	.185	_	5 @ 125 & 2 @ 250	PC straight	Round	1.29	1.16	1.04	.89	.75

	Other Manufacturers — Limited Great Deals															
105814CH	SWA208	5	6	DPDT on-(on)	.52 x .52 x .38	.20	.185	_	5 @ 125 & 2 @ 250	Solder lugs	Round	\$1.59	\$1.45	\$1.29	\$1.15	\$.89
202964CH	WI24	7	6	DPDT on-off-(on)	.50 x .50 x .46	.15	.15	.20	6 @ 125 & 3 @ 250	PC right angle	Round	1.59	.79	.68	.54	.41

#### JAMECO Value Pro

Mounting hole diameter: 7/32"Pre-tinned leads

· Metal construction

Includes: Mounting hardware



# **Subminiature Toggle Switches**



	Mfr. Cross				Dimensions	Lead S	pacing			Lever			Pricing		
Part No.	Ref. No.	Fig.	Pins	Туре	L" x W" x D"	A"	В"	Contact Rating	Lead Type	Туре	1	10	100	500	1000
106067CH	SWP124	1	3	SPDT on-on	.25 x .33 x .40	.20	.10	30mA @ 5VDC	PC right angle	Round	\$1.99	\$1.83	\$1.59	\$1.44	\$1.32
72160CH	SW1501	2	2	SPST on-off	.33 x .21 x .33	.10	_	1.5A @ 250VAC	Solder lugs	Round	1.09	1.07	1.04	.99	.84
75969CH	SWM136	2	3	SPDT on-on	.33 x .21 x .33	.10	_	3A @ 125VAC	Solder lugs	Round	1.55	1.44	1.21	.86	.63
72557CH	SW1502	2	3	SPDT on-off-on	.33 x .21 x .33	.10	_	1.5A @ 250VAC	Solder lugs	Round	1.35	1.25	1.05	.85	.60
138907CH	SW1503	3	6	DPDT on-off-on	.36 x .37 x .33	.17	.10	3A @ 120VAC	Solder lugs	Round	1.29	1.05	.85	.65	.55
75977CH	SWM137	3	6	DPDT on-on	.33 x .37 x .33	.17	.10	1.5A @ 250VAC	Solder lugs	Round	1.29	1.05	.85	.65	.55





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	Mfr. Cross			Туре	Contact Rating	Mounting	Mounting	Terminal	Rocker	Rocker	_	Space	Dimensions		Pricing	
Part No.	Ref. No.	_	Pins	() Momentary	(A @ VAC)	Hole	Туре	Туре	Color	Туре	A"	В"	(L"xW"xD")	1	10	100
316321CH	R13-213A-B-03		2	SPST on-off	6 @ 125	.48" Dia.	Panel Mnt	.110" quick conn.	Black	Rectangle		—	.80 x .57 x .65	\$3.39	\$3.07	\$2.76
316339CH	R13-213A-R-03	l	2	SPST on-off	6 @ 125	.48" Dia.	Panel Mnt	.110" quick conn.	Red	Rectangle		—	.80 x .57 x .65	3.39	3.07	2.76
316451CH	R13-243A-02	2	2	SPST on-off	8 @ 125	.78"L x .28"W	Panel Mnt	.187" quick conn.	Black	Rectangle		_	.83 x .37 x .85	1.39	1.26	1.14
316460CH	R13-243E-02	2	2	SPST on-(off)	8 @ 125	.78"L x .28"W	Panel Mnt	.187" quick conn.	Black	Rectangle		—	.83 x .37 x .85	1.95	1.77	1.59
316478CH	R13-243F-02	2	2	SPST (on)-off	8 @ 125	.78"L x .28"W	Panel Mnt	.187" quick conn.	Black	Rectangle		—	.83 x .37 x .85	2.05	1.88	1.69
316232CH	R13-130A-01	3	2	SPST on-off	10 @ 125	.72" Dia.	Panel Mnt	Solder	Black (I-O)	Round	0.20	—	1.02 (L) x 1.00 (D)	1.19	1.05	.689
316267CH	R13-136A-B-05	4	2	SPST on-off	10 @ 125	.72" Dia.	Panel Mnt	Solder	Black (I-O)	Square	0.20	—	.91 x .91 x .73	1.75	1.58	1.41
316275CH	R13-136A-R-05	4	2	SPST on-off	10 @ 125	.72" Dia.	Panel Mnt	Solder	Red (I-O)	Square	0.20	—	.91 x .91 x .73	1.75	1.58	1.41
316380CH	R13-228A-05	l	2	SPST on-on	10 @ 125	.63" Dia.	Panel Mnt	Solder	Black (I-O)	Rectangle	0.17	—	1.13 x .75 x .67	2.35	2.12	1.91
196154CH	R30NSA	6	2	SPST on-off	15 @ 125	1.07"L x .43"W	Panel Mnt	Quick connect	Solid Black	Rectangle	0.45	_	1.07 x .42 x .77	1.75	1.59	1.44
316013CH	R13-66A-B-02	7	2	SPST on-off	16 @ 125	.78"L x .52"W	Panel Mnt	.187" quick conn.	Black top	Rectangle	0.31	l —	.83 x .59 x .47	.99	.86	.56
316021CH	R13-66A-R-02	8	2	SPST on-off	16 @ 125	.78"L x .52"W	Panel Mnt	.187" quick conn.	Red top	Rectangle	0.31	—	.83 x .59 x .47	.99	.86	.56
316128CH	R13-73B-R-02	9	3	SPST on-off	10 @ 125	.78"L x .52"W	Panel Mnt	.187" quick conn.	Red Illum.	Rectangle	0.35	0.35	.83 x .59 x .87	1.49	1.35	1.22
316136CH	R13-73B-Y-02	9	3	SPST on-off	10 @ 125	.78"L x .52"W	Panel Mnt	.187" quick conn.	Yellow Illum.	Rectangle	0.35	0.35	.83 x .59 x .87	1.49	1.35	1.22
316144CH	R13-73B-G-02	9	3	SPST on-off	10 @ 125	.78"L x .52"W	Panel Mnt	.187" quick conn.	Green Illum.	Rectangle	0.35	0.35	.83 x .59 x .87	1.65	1.50	1.35
316398CH	R13-228B-R-05	5	3	SPST on-off	10 @ 125	.63" Dia.	Panel Mnt	Solder	Red Illum.	Rectangle	0.17	—	1.13 x .75 x .67	3.05	2.76	2.48
316401CH	R13-228B-G-05	5	3	SPST on-off	10 @ 125	.63" Dia.	Panel Mnt	Solder	Green Illum.	Rectangle	0.17	—	1.13 x .75 x .67	3.05	2.76	2.48
316030CH	R13-66B-R-02	10	3	SPST on-off	16 @ 125	.78"L x .52"W	Panel Mnt	.187" quick conn.	Red Illum.	Rectangle	0.31	0.31	.83 x .59 x .47	1.19	1.02	.67
316048CH	R13-66B-G-02	10	3	SPST on-off	16 @ 125	.78"L x .52"W	Panel Mnt	.187" quick conn.	Green Illum.	Rectangle	0.31	0.31	.83 x .59 x .47	1.19	1.02	.67
140531CH	CK7101	11	3	SPDT on-on	5 @ 120	_	PC Mnt	PC right angle	Solid Black	Rectangle	0.15	—	.50 x .50 x .27	1.49	1.34	1.21
316363CH	R13-213C-03	1	3	SPDT on-on	6 @ 125	.48" Dia.	Panel Mnt	.110" quick conn.	Black	Rectangle	0.20	0.13	.80 x .57 x .65	4.15	3.77	3.39
316419CH	R13-228C-05	5	3	SPDT on-on	10 @ 125	.63" Dia.	Panel Mnt	Solder	Black	Rectangle	0.17	_	1.13 x .75 x .67	3.19	2.91	2.61
316259CH	R13-130C-01	12	3	SPDT on-on	10 @ 125	.72" Dia.	Panel Mnt	Solder	Black	Round	0.20	0.20	1.02 (L) x 1.00 (D)	1.35	1.24	.78
316304CH	R13-136C-B-05	13	3	SPDT on-on	10 @ 125	.72" Dia.	Panel Mnt	Solder	Black	Square	0.20	0.20	.91 x .91 x .73	2.05	1.88	1.69
316312CH	R13-136C-R-05	13	3	SPDT on-on	10 @ 125	.72" Dia.	Panel Mnt	Solder	Red	Square	0.20	0.20	.91 x .91 x .73	2.05	1.88	1.69
316056CH	R13-66C-B-02	10	3	SPDT on-on	16 @ 125	.78"L x .52"W	Panel Mnt	.187" quick conn.	Solid Black	Rectangle	0.31	0.31	.83 x .59 x .47	1.19	.96	.60
316064CH	R13-66C-R-02	10	3	SPDT on-on	16 @ 125	.78"L x .52"W	Panel Mnt	.187" quick conn.	Solid Red	Rectangle	0.31	0.31	.83 x .59 x .47	1.19	.96	.60
316072CH	R13-66D-02	10	3	SPDT on-off-on	16 @ 125	.78"L x .52"W	Panel Mnt	.187" quick conn.	Black (I-O-I)	Rectangle	0.31	0.31	.83 x .59 x .47	1.19	1.02	.80
316371CH	R13-213F-03	1	4	DPST on-off	6 @ 125	.48" Dia.	Panel Mnt	.110" quick conn.	Black	Rectangle	0.20	0.13	.80 x .57 x .65	4.65	4.24	3.81
316110CH	R13-73A2-B-02	14	4	DPST on-off	10 @ 125	.78"L x .52"W	Panel Mnt	.187" quick conn.	Solid Black (I-O)	Rectangle	0.20	0.34	.83 x .59 x .87	1.69	1.58	1.42
316152CH	R13-73C-R-02	14	4	DPST on-off	10 @ 125	.78"L x .52"W	Panel Mnt	.187" quick conn.	Red Illum.	Rectangle	0.20	0.34	.83 x .59 x .87	2.05	1.88	1.69
316161CH	R13-73C-Y-02	14	4	DPST on-off	10 @ 125	.78"L x .52"W	Panel Mnt	.187" quick conn.	Yellow Illum.	Rectangle	0.20	0.34	.83 x .59 x .87	2.05	1.88	1.69
316179CH	R13-73C-G-02	14	4	DPST on-off	10 @ 125	.78"L x .52"W	Panel Mnt	.187" quick conn.	Green Illum.	Rectangle	0.20	0.34	.83 x .59 x .87	2.25	2.04	1.84
316347CH	R13-213B-B-03	15	6	DPDT on-on	6 @ 125	.48" Dia.	Panel Mnt	.110" quick conn.	Black	Rectangle	0.20	0.13	.80 x .57 x .65	5.99	5.42	4.88
316355CH	R13-213B-R-03	15	6	DPDT on-on	6 @ 125	.48" Dia.	Panel Mnt	.110" quick conn.	Red	Rectangle	0.20	0.13	.80 x .57 x .65	5.99	5.42	4.88
316241CH	R13-130B-01	12	6	DPDT on-on	10 @ 125	.72" Dia.	Panel Mnt	Solder	Black	Round	0.20	0.20	1.02 (L) x 1.00 (D)	1.49	1.36	1.23
316283CH	R13-136B-B-05	13	6	DPDT on-on	10 @ 125	.72" Dia.	Panel Mnt	Solder	Black	Square	0.20	0.20	.91 x .91 x .73	2.45	2.20	1.99
316291CH	R13-136B-R-05	13	6	DPDT on-on	10 @ 125	.72" Dia.	Panel Mnt	Solder	Red	Square	0.20	0.20	.91 x .91 x .73	2.45	2.20	1.99

Blue Part No. = Limited Quantity Available

					Otl	ner Manufa	acturers	— Limited (	Great Deals	;						
140530CH	CK7101	-	3	SPDT on-on	5 @120	_	PC mnt. vert.	PC right angle	Black	Rectangle	0.15	-	.50 x .50 x .27	\$1.49	\$1.34	\$1.21
163344CH	CKD103J5W	16	3	SPDT on-off-on	5 @ 125	.77"L x .51"W	Panel Mnt.	Solder	White	Lever type	0.20	_	.67 x .47 x .59	\$1.05.28	.25	.23

Over 99% of Our **Products Are In Stock** 

Place your order by 6PM EST for same business day shipment!





#### **Excell Rotary DIP Switches**

- Gold plated contacts to ensure reliable, low resistance connection
- Fully sealed construction
   Terminals: PC pin leads
   Life: 10,000 cycles min.
   Op force: 500g-cm max.
   Max. switching load rating: 25mA @ 24VDC
- Material: 94V-0 grade, UL approved fire retardant plastic
   Lead spacing: A = 0.1"; B = 0.3"





\$1.35

139635CH 139651CH

Part No.	Product No.	Position	Adjust	Code Type	W" x D" x H"	1	10	50	100
139635CH	ERD110RS(DRD10)	10	top	BCD	.39 x .39 x .20	\$2.59	\$2.33	\$2.07	\$1.86
139651CH	ERD116RS	16	top	Hex	.39 x .20 x .39	2.75	2.49	2.22	1.99

#### **Replacement Switches for AT-Style Computer Cases**

#### PC Pushbutton Switches

- · Alternate action double pole switch
- · Contacts rated at 250VAC
- UL/CSA/VDE approved





**FL (1)** 

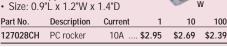
27044CH	174238CI
antity SAVE	SALE

Part No.	Description	Current 1	10	100
127044CH	PC push button	7.5A \$2.95	\$1.66	\$1.24
174238CH	PC push button	8A <b>.94</b>	.85	.78
DO D /	0 11 1		A-	

#### PC Rocker Switch

- · For mini-tower cases
- · Contacts rated at 250VAC
- UL/CSA approved DPST

Description



#### **D2F Series Subminiature PCB Plunger Switch**

#### Use in Place of Shorting Block

- · SPST (on/off)
- · Contact rating 50mA @ 24VDC
- · Non-removable plunger
- Size: 0.2"W x 0.1"D x 0.38"H
- · Lead length: 0.1"L
- 10 piece minimum

Part No.	Description	10	100	1000
172700CH	Plunger switch	\$.10	\$.085	\$.064

#### Magnetic Reed Switches

- NO (normally open) Contact form: SPST

171871CH: 500mA @ 100VDC

164081CH

**Quantity SAVE** 

Size: 0.53"L x 0.1"Dia.

164081CH: 1A @ 250VAC: 1A @ 50VDC

Size: 1.43"L x 0.2"Dia.

Part No.	Mfr. Cross Ref. No. 1	10	100	1000
171871CH	MKA141011015 <b>\$.79</b>	\$.64	\$.46	\$.41
164081CH	MRS1 <b>79</b>	.63	.43	.39

#### JAMECO ValuePro

#### Tri-State DIP Switch

Switch contacts: bussed, tri-state

 Labeled tri-state positions (+, 0, -)



Contact rating: 24VDC @ 25mA • 8 positions Two isolated busses • Pre-tinned leads

 Compatible socket, use P/N 37372CH, pg 111 Part No. Mfr. Cross Ref. No. ETA108E ..... \$1.95 \$1.75

138991CH

#### **Rotary DIP Switch**

- · Fully sealed construction
- · Rotor and switch body: plastic (UL94V-0)
- Contact and terminal material: copper alloy plated
- Code type: HEX 16-position Make and break current rating:
- 30mA @ 30VDC for 10,000 cycles 0.1" x 0.3" pin spacing (standard through hole)
- · Top adjustment
- Size: 0.39"W x 0.39"D x 0.20"H

			10	100	1000
<b>215992CH</b> HAB16	\$2.45	\$1.29	\$1.18	\$1.07	\$.97

#### Switch Assortment Kit

#### Includes:

- · 20-drawer component cabinet (319599CH), 20 clear plastic drawers (319601CH), 20 clear dividers (319610CH), pg 244 and 30 adhesive labels for drawers to identify parts in kit
- 10 ea. miniature toggle switches (76523CH, 21936CH, 21910CH, 26331CH, 26315CH, 21979CH, 21952CH, 26366CH, 26358CH), pg 133
- 10 ea. slide switches (109170CH), pg 131
- 10 ea. pushbutton switches (26622CH, 26649CH), pg 130
- 10 ea. DIP switches (38818CH, 38842CH), pg 135
- 10 ea. tactile switches (153251CH), pg 136

Wt. (lbs.) Part No. Description 85059CH 150 pcs. switch kit 5.0 .... **\$98.95** 



SAVE \$51







# **DIP Switches**



JAMECO ValuePro







139011CH

206359CH 139002CH 38842CH

- Switch contacts: SPST
- Switches are numbered
- 50VDC @ 100mA Molded construction



38800CH

- Standard switches have raised lever
- · LP switches are flush to casing · Pre-tinned leads

#### Compatible Socket Chart, see page 111 for Sockets

Switch	Socket	Switch	Socket	Switch	Socket
109058CH	112192CH	38827CH	37161CH	101857CH	38113CH
38819CH	51570CH	38842CH	37372CH	38798CH	38607CH
139003CH	51570CH	139011CH	37372CH	38800CH	39378CH
109057CH	112192CH	139002CH	51570CH	101856CH	38113CH
38818CH	51570CH	38826CH	37161CH	38797CH	38607CH
206359CH	51570CH	38834CH	37161CH		

	Mfr. Cross		Pricing						
Part No.	Ref. No.	Pos.	1	10	100	1000			
109058CH	206-2	2	\$.75	\$.68	\$.61	\$.55			
38819CH	206-4	4	.65	.55	.49	.45			
139003CH	206-4LP	4	.79	.70	.55	.44			
38827CH	206-6	6	.99	.89	.79	.72			
38842CH	206-8	8	.89	.80	.72	.64			
139011CH	206-8LP	8	.85	.76	.61	.47			
101857CH	206-9	9	.85	.79	.69	.49			
38798CH	206-10	10	.95	.86	.68	.51			
38800CH	206-12	12	1.05	.99	.93	.56			

Other Manufacturers — Limited Great Deals										
109057CH	206-2*	2	\$.75	\$.68	\$.61	\$.55				
38818CH	206-4	4	.48	.44	.40	.36				
206359CH	206-3* 🖸	3	.79	.65	.55	.413				
139002CH	206-4LP*	4	.79	.70	.55	.44				
38826CH	206-6*	6	.99	.89	.79	.72				
38834CH	206-7*	7	.95	.86	.77	.62				
101856CH	206-9*	9	.85	.79	.69	.49				
38797CH	206-10*	10	.95	.86	.77	.64				

#### Switch Grab Bags





rocker and slide switches

18235CH: 50 pcs. assorted - toggle, pushbutton,

135378CH: 1 lb. (appox. 135 pcs.) assorted – toggle, pushbutton, rocker and slide switches

Part No.	Cross Ref. No.	Wt. (lbs.)	1	10
18235CH	GB165	0.4	. \$8.75	\$7.69
135378CH	GB165LB	1.0	. 18.95	16.95

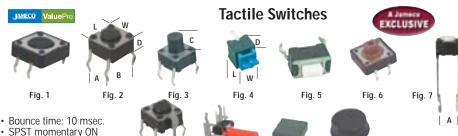


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Our enhanced website offers more products. Find it quickly and order it easily!







- Contact resistance:  $100m\Omega$

•	Lead	type: PC	
---	------	----------	--

Loud typ				FI	g. 8		Fig	. 9		Fig. 10	Fig. 11	*	10 piec	e minin	num
	Mfr. Cross			D	imensi	ons (in	.)	Lead S	pacing	Contact Rating	Button		Prici	ing	
Part No.	Ref. No.	Fig.	Pins	L	W	D	С	A"	В"	(mA @ VDC)	Color	1	10	100	250
122972CH	DTS1212	1	4	.47	.47	.18	—	.20	.50	20 @ 15	Black	\$.26	\$.23	\$.19	\$.17
119010CH	KTIIBICM	2	8	.24	.24	.15	.30	.17	.25	20 @ 15	Black	.27	.24	.22	.20
149948CH	KT11P4CM	3	4	.24	.24	.15	.13	.17	.25	20 @ 15	Black	*	.23	.21	.19
115087CH	KIE22	4	2	.24	.24	.22	_	—	.25	20 @ 15	Blue	*	.25	.223	.204
199727CH	EVQ11A04M	7	2	.24	.24	.14	.30	.20	-	20 @ 15	White	.30	.221	.196	.187
200362CH	EVQPB04K ◆†	8	5	.24	.24	.14	.30	.17	.26	20 @ 15	Black	.29	.26	.23	.20
137189CH	PBS103	1	4	.47	.47	.17	—	.20	.50	50 @ 12	Black	.39	.35	.32	.19
153251CH	SDT620K	2	4	.24	.24	.15	.06	.17	.25	50 @ 12	Black	.29	.25	.20	.18
155248CH	KRS-3550-BK	5	2	.24	.14	.15	—	—	.27	50 @ 12	Black	.22	.20	.16	.15
155379CH	KRS-1273B ◆	6	4	.47	.47	.14	.14	.17	.53	50 @ 12	Brown	.39	.35	.31	.26

#### Tactile Switch Cans

Tactile Switch Caps								10 piece minimum			
Part No.	Mfr. Cross Ref. No.	Fig.	Description	Size (in.)	Material	For Use With	10	100	250		
55389CH	KRS-CAP-A	10	Square	.47"L x .47"W x .16"H	Plastic	P/N 155379CH	\$.15	\$.11	\$.10		
55408CH	KRS-CAP-B	11	Round	.50"Dia. x .25"H	Plastic	P/N 155379CH	.15	.13	.11		

	Other Manufacturers — Limited Great Deals														
	Mfr. Cross			D	imensi	ons (in	.)	Lead S	pacing	Contact Rating	Button		Prici	ng	
Part No.	Ref. No.*	Fig.	Pins	L	W	D	С	A"	В"	(mA @ VDC)	Color	1	10	100	250
199726CH	EVQ11A04M	7	2	.24	.24	.14	.30	.20	— j		White	\$.27	\$.199	\$.176	\$.168
200361CH	EVQPB04K <sup>†</sup>	8	5	.24	.24	.14	.30	.17	.26	20 @ 15	Black	0.2621	.10	.094	.086
155256CH	KRS-3550-WH	5	2	.24	.14	.15	_	_	.27		White∜		.14	.13	.12
206341CH	KPT1107A	5	2	.24	.14	.15	_	_	.25	50 @ 12	White∜	0.5223	.21	.19	.17
202956CH	KSM06330	9	2	.24	.24	.15	.38	.11	.18	50 @ 24	Red -\$	35.26	.15	.13	.12
<b>.</b>			+												

Manufacturer may vary

† 200362CH/ 200361CH: with ground pin

#### SP5T Rotary Switch

- Panel mount
   Fixed stop
   1/8" screwdriver slotted shaft
   0.06" solder terminals
- 36° angle of throw Single pole, 5-positions Contact resistance:  $20m\Omega$  max.
- Insulation resistance: 1,000M $\Omega$  minimum between mutually insulated parts
- Material: stainless steel shaft and detent contact springs; brass terminals

Part No.	Product No.	Description	SALE	1	10	100
184727CH	50AB36-01-1-5-F <b>⊙</b>	SP5T panel mount rotary switch	h <del>\$1.0</del> 5	\$.33	\$.30	\$.28

Blue Part No. = Limited Quantity Available

#### JAMECO ValuePro

#### **Rotary Switches**

- Contact rating: 30VDC @ 0.3A Insulation resistance:  $10M\Omega$  min.
- Contact resistance: 30mΩ
   Lug size: 0.07"
   Mounting hole diameter: 3/8"
   Layers: 1
- · Material: solid brass bushings, slotted aluminum shafts, plated frame, phenolic contact
- wafer (except for P/N 101565CH plastic casing) Make before break Solder lugs
- Compatible with Jameco rotary knobs P/N 102787CH and 104176CH, pg 145 Panel mount

Includes: Washer and nut Part No. Mfr. Cross Ref. No. Poles Position Shaft Size (L" x Dia.") 10 101531CH RS0261 12 0.46 x 0.25 \$1.29 \$1.10 RS022 2 0.46 x 0.25 1.35 1.15

#### 101573CH RS023 101565CH 3 1 16 x 0 25 1 95 101557CH RS024 0.46 x 0.25 1.09

#### JAMECO ValuePro

#### 16-Button Numeric Keypad · 8-position solder pad

- 4 x 4 matrix keypad
- Contact rating: 24VDC @ 20mA
  Life test: 1,000,000 life cycles per key Contact resistance: 200Ω max. • Size: 3.0"L x 2.8"W x 0.6"H
- Part No. 100 169244CH Numeric keypad ...... \$7.95 \$6.25



**Quantity SAVE** 



1.59

101573CH

100

.90

\$.82

1.25

(.69)

#### OMRON

#### **B3F Series Miniature** Tactile Key Switch

Miniature, low profile and easy mounting. Applications: audio, office & communications equipment, measuring instruments, TVs, VCRs, etc.



TIT

153488CH

302025CH

196171CH

- · Extended mechanical/electrical service life
- Flux-tight base structure allows automatic soldering of the key switch onto a PC board
- Lead spacing: A = 0.18"; B = 0.26" Operating force: 188787CH general purpose 100g P/N 162886CH and high-force 260g
- Dimensions: 162886CH 4.3 mm x 6.5 mm 188787CH 7.3mm x 6.5mm

Part No.	Туре	1 2	5 50	100
162886CH	B3F-1000 \$.4	5 \$.40	3.36	\$.33
188787CH	B3F-10503	5 .29	9 .21	.17

#### JAMECO Value Pro

#### 12-Button Telephone Keypads

· White plastic

- 8-pin . 100" header
- · Contact rating: 12VDC @ 20mA
- Contact resistance: 200Ω max.
- · Tactile type keypad
- Life test: 1,000,000 cycles per key
- Size: 2.8"L x 2.2"W x 0.6"H

			100100	011
Part No.	Description	1	10	10
190561CH	Numeric keypad	\$8.75	\$7.45	\$5.5

#### 59 7.69 153488CH Alpha numeric keypad 9.49 8.55

#### 16-Button Keypad Switch

- 1/2" button centers
- · Flange mounted
- Top surface or sub-
- surface mounting
- Snap-dome contact
- provides positive feedback
- Rating @ 24VDC: 10mA resistive
- Contact resistance:  $10\Omega$  maximum (compatible with MOS, TTL, and DTL)
- Voltage breakdown: 250VAC between
- mutually insulated parts Life expectancy: 3,000,000 operations per button

Part No.	Product No.	1	10	100
302025CH	86BB2-006	\$18.55	\$16.79	\$16.15

# 16-Button Indoor/Outdoor Keypads

- 9-pin .100" headers
- Fully sealed
- snap-dome contact
- For indoor
- or outdoor use
- Contact rating:
- 24VDC @ 10mA resistive · Life test: 3,000,000 cycles per key
- Compatible with MOS, TTL and  $\dot{D}TL$  (10 $\Omega$  max.) Recommended connector:
- P/N 103190CH header and
- P/N 100765CH pin, pg 112
   Size (housing): 4.7"W x 1.7"H x 0.4"T
- \* Prepackaged: order in increments of 10 or 100

Part No.	Description 1	10	100
196171CH	2x8 matrix keypad \$16.95	\$15.29	\$13.75
152063CH	4x4 matrix keypad 14.95	13.49	11.95
103190CH	Header housing (10-pin)42	.39	.36
100765CH	Header pin (10 per pack) *	.11	.09





# **Potter & Brumfield Relays**







- UL/CSA approved
   Industry standard termination for quick installation
   Contact arrangements from SPDT to 4PDT
   Wide range of coil voltage for industrial and
- for industrial and commercial applications















Figure 3

Figure 4

Figure 5

Figure 6

Figure 7

Figure 8

				Contact	Coil	Coil Resistance	Coil Current	Mating S	Socket*		Pric	ina	
Part No.	Product No.♠	Tyco No.	Figure	Form	Voltage	(Ω)	(mA)	Standard	DIN Rail	1	10	25	50
282247CH	K10P-11A15-120	4-1393144-0	1	DPDT	120VAC	3,900	11	27E488/489	27E895	\$6.99	\$6.49	\$6.09	\$5.42
282255CH	K10P-11D15-12	5-1393144-5	1	DPDT	12VDC	160	75	27E488/489	27E895	6.99	6.49	6.09	5.42
282263CH	K10P-11D15-24	5-1393144-7	1	DPDT	24VDC	650	37	27E488/489	27E895	5.99	5.69	5.50	5.29
282280CH	KHAU-17A11-24	2-1393122-1	2	4PDT	24VAC	160	52	27E166	27E894	5.45	5.29	5.17	4.77
282271CH	KHAU-17A11-120	2-1373122-1	2	4PDT	120VAC	3,900	11	27E166	27E894	6.29	5.99	5.81	5.37
282301CH	KHAU-17D11-12	4-1393122-3	2	4PDT	12VVAC	160	100	27E166	27E894	5.19	4.90	4.85	4.60
282319CH	KHAU-17D12-24	5-1393122-7	2	4PDT	24VDC	650	52	27E166	27E894	5.59	5.39	5.17	4.77
282327CH	KHU-17A11-120♠	2-1393123-4	3	4PDT	120VAC	3,900	11	27E166	27E894	23.49	21.65	19.29	16.91
300943CH	KRPA-5AG-24	9-1393104-9	4	SPDT	24VAC	85	84	27E100 27E122	27E891	24.55	23.26	21.84	20.06
282431CH	KRPA-5AG-120	9-1393104-9	4	SPDT	120VAC	2,250	17.5	27E122	27E891	14.99	14.21	13.42	12.64
300951CH	KRPA-5AY-120	1393104-6	4	SPDT	120VAC		17.5	27E122 27E122	27E891	24.55	23.26		20.06
			4			2,250						21.84	
300960CH	KRPA-5DG-12	1393105-3		SPDT	12VDC	120	100	27E122	27E891	22.29	21.14	19.85	18.24
282440CH	KRPA-5DG-24♠	1393105-4	4	SPDT	24VDC	472	51	27E122	27E891	14.99	14.21	13.42	12.64
300986CH	KRPA-11AG-6	2-1393104-8	4	DPDT	6VAC	6	335	27E122	27E891	14.65	14.24	13.81	12.75
282335CH	KRPA-11AG-12	2-1393104-4	4	DPDT	12VAC	24	168	27E122	27E891	15.09	14.32	13.81	12.75
282351CH	KRPA-11AG-24	1-1393105-2	4	DPDT	244VAC	85	84	27E122	27E891	9.99	9.49	9.21	8.49
282343CH	KRPA-11AG-120	2-1393104-5	4	DPDT	120VAC	2,250	17.5	27E122	27E891	10.05	9.79	9.56	8.80
300994CH	KRPA-11AG-240	2-1393104-7	4	DPDT	240VAC	9,110	8.75	27E122	27E891	14.49	14.09	13.67	12.62
301006CH	KRPA-11AN-12	3-1393104-1	4	DPDT	12VAC	24	168	27E122	27E891	12.95	12.14	11.32	10.25
301014CH	KRPA-11AN-24	3-1393104-3	4	DPDT	24VAC	85	84	27E122	27E891	15.99	15.58	14.63	13.45
282360CH	KRPA-11AN-120	3-1393104-2	4	DPDT	120VAC	2,250	17.5	27E122	27E891	11.45	10.89	10.48	9.58
301022CH	KRPA-11AN-240	3-1393104-4	4	DPDT	240VAC	9,110	8.75	27E122	27E891	18.69	17.70	16.63	15.28
301031CH	KRPA-11AY-24	3-1393104-7	4	DPDT	24VAC	85	84	27E122	27E891	15.09	14.99	14.15	12.99
301049CH	KRPA-11AY-120	3-1393104-6	4	DPDT	120VAC	2,250	17.5	27E122	27E891	16.99	16.13	15.14	13.91
301057CH	KRPA-11DG-6	4-1393104-7	4	DPDT	6VDC	22	188	27E122	27E891	15.89	15.07	14.15	13.31
282378CH	KRPA-11DG-12	4-1393104-3	4	DPDT	12VDC	120	100	27E122	27E891	9.95	9.49	9.21	8.49
282386CH	KRPA-11DG-24	4-1393104-5	4	DPDT	24VDC	472	51	27E122	27E891	9.69	9.21	8.96	8.34
301065CH	KRPA-11DG-48	4-1393104-6	4	DPDT	48VDC	1,800	26.6	27E122	27E891	16.29	16.13	15.13	13.45
301073CH	KRPA-11DG-110	4-1393104-2	4	DPDT	110VDC	10,000	11.5	27E122	27E891	12.19	11.54	10.97	9.93
301081CH	KRPA-11DG-125	4-1393104-4	4	DPDT	125VDC	10,000	11.5	27E122	27E891	15.85	15.31	14.78	13.64
301090CH	KRPA-11DN-12	5-1393104-0	4	DPDT	12VDC	120	100	27E122	27E891	15.75	15.58	14.62	12.99
282394CH	KRPA-11DN-24	5-1393104-1	4	DPDT	24VDC	472	51	27E122	27E891	10.39	9.89	9.53	8.80
301102CH	KRPA-11DN-110	4-1393104-9	4	DPDT	110VDC	10,000	11.5	27E122	27E891	16.05	15.58	14.63	13.45
301111CH	KRPA-11DY-24	5-1393104-7	4	DPDT	24VDC	472	51	27E122	27E891	14.65	14.24	13.81	12.75
301145CH	KRPA-14AN-24	7-1393104-4	4	3PDT	24VAC	85	84	27E123	27E892	18.15	17.18	16.12	15.17
282415CH	KRPA-14AN-120	7-1393104-3	4	3PDT	120VAC	2,250	17.5	27E123	27E892	12.19	11.58	11.14	10.29
301153CH	KRPA-14AN-240	7-1393104-5	4	3PDT	240VAC	9,110	8.75	27E123	27E892	19.99	19.29	17.19	15.28
301129CH	KRPA-14AG-24	6-1393104-7	4	3PDT	24VAC	85	84	27E123	27E892	11.09	10.64	10.17	9.75
282407CH	KRPA-14AG-120	6-1393104-5	4	3PDT	120VAC	2,250	17.5	27E123	27E892	11.79	11.20	10.82	9.98
301137CH	KRPA-14AG-240	6-1393104-8	4	3PDT	240VAC	9,110	8.75	27E123	27E892	19.29	18.76	17.61	16.19
301161CH	KRPA-14AY-24	7-1393104-8	4	3PDT	24VAC	85	84	27E123	27E892	17.55	16.64	15.63	14.36
301170CH	KRPA-14AY-120	7-1393104-0	4	3PDT	120VAC	2,250	8.75	27E123	27E892	18.25	17.70	16.16	14.36
301170CH	KRPA-14DG-12	8-1393104-7	4	3PDT	120VAC	120	100	27E123	27E892	12.99	12.66	12.28	11.40
282423CH	KRPA-14DG-24	8-1393104-4	4	3PDT	24VDC	472	51	27E123	27E892	11.29	10.73	10.34	9.54
301196CH	KRPA-14DG-24 KRPA-14DG-48	8-1393104-4	4	3PDT	48VDC	1,800	26.6	27E123	27E892	18.99	17.97	16.88	15.50
301209CH	KRPA-14DG-48 KRPA-14DG-110	8-1393104-5	4	3PDT	110VDC	10,000	11.5	27E123 27E123	27E892	18.99	18.19	17.44	16.10
301217CH	KRPA-14DN-24	9-1393104-0	4	3PDT	24VDC	472 1 700	51	27E123	27E892	18.39	17.44	16.38	15.05
282458CH	KUHP-11A51-120♠	6-1393114-9	5	DPDT	120VAC	1,700	24	— 27E121	275002	10.25	9.99	9.77	8.93
282466CH	KUL-11A15S-120	2-1393115-6	6	DPDT	120VAC	3,700	30	27E121	27E893	32.29	31.23	27.84	26.19
282474CH	KUP-14A15-120	7-1393117-8	7	3PDT	120VAC	1,700	24	27E121	27E893	9.69	9.21	8.96	8.59
282482CH	KUP-14A35-120♠	8-1393117-7	7	3PDT	120VAC	1,700	24	27E121	27E893	11.65	11.07	10.26	9.59
282503CH	KUP-14D15-24	1-1393118-4	7	3PDT	24VDC	472	51	27E121	27E893	10.39	9.87	8.89	7.90
282491CH	KUP-14D15-110	1-1393118-2	7	3PDT	110VDC	10,000	11	27E121	27E893	13.09	12.44	11.63	9.78
282538CH	R10-E1X4-V185	1-1393766-4	8	4PDT	12VDC	185	60	27E163	27E461	14.55	13.82	12.86	12.39

<sup>\*</sup> For sockets see page 138

PB

282597CH

#### **Relay Sockets**









#### Relay Sockets for KRPA Series (Octal)

Part No.	Product No.	Contact Arr.	Pins	Type 1	10	25	50
282132CH	27E122	DPDT	8	Standard \$3.59	\$3.49	\$3.45	\$3.16
282159CH	27E891	DPDT	8	DIN Rail 4.49	4.27	4.10	3.76
282141CH	27E123	3PDT	11	Standard 4.89	4.65	4.24	3.77
282167CH	27E892	3PDT	11	DIN Rail 7.15	6.79	6.19	5.50

#### Relay Socket for KHAU Series

Part No.	Product No.	Contact Arr.	Pins	Type 1	10	25	50
282183CH	27E894	4PDT	14	DIN Rail \$7.15	\$6.79	\$6.50	\$5.78

#### Relay Sockets for KUP Series (11-blade square)

Part No.	Product No.	Contact Arr.	Pins	Туре	1	10	25	50
282124CH	27E121	3PDT	11	Standard \$	6.29	\$5.99	\$5.47	\$5.00
282175CH	27E893	3PDT	11	DIN Rail	6.89	6.55	6.38	5.80

#### Relay Socket for K10 Series (8-blade square)

Part No.	Product No.	Contact Arr.	Pins	Туре	1	10	25	50
282191CH	27E895	DPDT	8	DIN Rail	\$5.05	\$4.80	\$4.38	\$3.90

#### B DIN Rail Mount Socket and Track Mounting System

For use with KHAU, KUP, and K10 series DIN relay sockets

282204CH: End clip insulator for preventing sockets from moving sideways or sliding off track 282108CH: Steel mounting clip



28220401





6.93

with #6-	32 screw (	7/16")	282204CH	282108C	Н	282116C	Н
Part No.	Product No.	Description		1	10	25	50
282204CH	40G432	Mounting plastic in	sulator	\$.59	\$.57	\$.55	\$.46
282108CH	24A071	Steel mounting clip	)	49	.46	.40	.35
282116CH	24A110	36" mounting track		9.39	8.92	8.54	6.93

#### PR S89R Series Bistable, Impulse Relay

· Contact rating: 15A Nominal power: 9W@25°C

- Contact life: 10 million operations; 50,000 mechanical operation
- Initial breakdown voltage: 1,500Vrms, 60Hz
- Dust cover with octal plug-in base

Part No.	Product No.	Voltage	Resistance	1	10	25	50
282546CH	S89R11APP1-120	120VAC	260Ω	\$32.79	\$32.14	\$27.39	\$27.09

#### VF4 Series 40A General Purpose Plug-In Relay

- · Expected life: 10 million operations;100,000 mechanical operations @ 40A SPDT
- · Dielectric strength: 500Vrms between contact and coil
- Initial operate time: 7ms typical with rated coil voltage applied
- 0.250" quick connected and printed circuit terminals

Part No.	Product No.	Voltage	Resistance	1	10	25	50
282554CH	VF4-45F11	12VDC	90Ω	. \$3.19	\$3.03	\$2.78	\$2.48

Contact

Form

SPST-NO!

SPST-NO!

SPDT

SPDT

SPDT

Fia.

1 ¦

#### W58 Series Thermal Circuit Breakers

- · Max. operating voltage: 50VDC; 250VAC 50/60Hz
- Interrupt capacity: 2,000A @ 50VDC; 1,000A @ 250VAC 50/60Hz
- Endurance cycling: >1,000 operations @ 200% of rating
- Dielectric strength: >1,500Vrms
- Push button to reset breaker

Part No.	Product No.	Amp	Resistance	1	10	25	50
282562CH	W58-XB1A4A-10	10	0.014	\$2.99	\$2.95	\$2.89	\$2.69
282571CH	W58-XB1A4A-15	15	0.010	3.19	3.03	2.97	2.81
282589CH	W58-XB1A4A-20	20	0.006	3.19	3.03	2.97	2.81
282597CH	W58-XB1A4A-30	30		3.19	3.03	2.97	2.81

#### **CNS Series Multifunction Time Delay Relays**

- DPDT Rating: 10A @ 30VDC or 277VAC
- Electrical life: 100,000 operations at rated load
- Dielectric strength: 1,000Vrms, 60Hz between open contacts; 1.500Vrms, 60Hz between all other conductors

Power requirement: 10W @ 240VAC/VDC; 5W @ 120VAC/VDC; 1W @ 25VAC/VDC

282212CH	-

Part No.	Product No.	Voltage	Functions	Pins	1	10	25	50
282212CH	CNS-35-92	24-240VAC/VDC	4	8	\$62.89	\$59.75	\$55.71	\$52.87
282221CH	CNS-35-96	24-240VAC/VDC	8	11	71.65	68.07	66.42	66.14

#### **CNT Series Multifunction, Digital** Time Delay Relay/Counter

- Digital adjustment via thumbwheel switches
- Maximum count: 1 to 999; 10 to 9,990; 100 to 99,900
- Maximum count rate: 100 counts per second
- Rating: 10A @ 30VDC or 277VAC resistive
- Electrical life: 100,000 operations min. at rated load
- 11-pin octal style plug DPDT
- Dielectric strength: 1,000Vrms, 60Hz between open contacts; 1,500Vrms between all other contacts

Power requirement: 10W @ 240VAC/VDC; 5W @ 120VAC/VDC; 1W @ 24VAC/VDC

Part No. 10 282239CH 24-240VAC/VDC ...... \$82.95 \$81.99

#### RB PRD Series Heavy Duty Open Relay

- · Expected life: 100,000 operations at rated load
- · Contact rating: 25A @ 277VAC · Current: 85mA Nominal power: -9.8W @ 25°C Resistance: 290Ω
- Auxiliary snap action switch rating: 5A @ 120VAC, 60Hz
- · Initial breakdown voltage: 2,000Vrms min. between all elements and ground

Part No.	Product No.	voitage	1	10	25	50
282520CH	PRD-5AY0-120	120VAC	\$19.79	\$18.24	\$16.25	\$14.19

#### ODC Series Input/Output Module Relay

VF4 Type

· For use with

- Switch form: SPST-NO Resistance:  $250\Omega$
- · Isolation: 4.000Vrms, 60Hz
- · Capacitance: 8pF typical (input to out put)

Part No.	Product No.	Voltage	1	10	25	50
282511CH	ODC-5	5VDC/3-60VDC	\$9.25	\$8.99	\$8.85	\$8.06

P/N 148582CH, left

1 blue wire: 18 AWG:

12 AWG: 2 black &

## **Potter & Brumfield Type Plastic Enclosed Construction Relays**

#### VF4 Type

- · Dielectric strength: 500VDC (between contact & coil)
- Operating temperature: -35°C to +85°C
   Contact current: 40A
   Terminal type: quick connect Coil voltage: 12VDC except P/N 171521CH (5VDC)

P&B Cross

Reference

VF4-81F11S01

VF4-11F11

VF4-45D11

VF4-85F11

VF4-81F11

- · Normally open (NO), normally closed (NC)
- Dimensions: 1.1"L x 1.1"W x 1.0"H

Mfr. Cross

LD1A-12F

961A-1A12D

961A-1C-12DM

Ref. No.

LD5F

LD12F









171459CH

(Fig. 3)

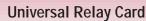
1 black & 1 red wire

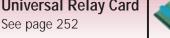
Contact voltage/current: 12V/20A



Part No. Ref. No. 10 100 170624CH RSD03 ..... \$2.35 \$2.15 \$1.89 \$1.55

Relay Socket with Coil Diode







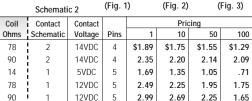






171441CH







Part No.

171459CH

171441CH

171521CH

148582CH

171432CH

#### **Small High-Current PC Mount Relays**

An inexpensive means of switching loads up to 30 amps. While these small, low-cost relays are designed primarily for the appliance industry and the heating, air conditioning and ventilation markets, they are also well suited for automotive load management and other applications.

- Meets UL class F insulation standard
- · Mechanical life expectancy: 10 million operations
- Electrical life expectancy: 100,000 operations at rated loads
   Dielectric strength: 1500Vrms (between contact and coil)

104926CH: Open frame relay

129349CH: Immersion cleanable, plastic sealed case



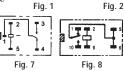




Fig. 3





Fig. 5



Fig. 6























Α	В	C	D		E		ŀ	G	н		ı	J		K	
			Potter & Brumfield		Contact	Coil	Coil		Contact				Pric	Pricing	
Part No.	Product No.	Manufacturer	Cross Reference	Fig.	Form	Voltage	(Ohms)	Contact Voltage	Current	Pins	L x W x H (in.)	1	10	50	100
145752CH	L90A-12W*	Rayex	T90S1D12-12	1A	SPST	12VDC	155	240VAC	30A	5	1.2 x 1.0 x .77	\$2.45	\$2.10	\$1.85	\$1.49
195864CH	RP838012	Schrack	_	5E	SPST	12VDC	270	250VAC	12A	4	1.1 x .48 x 1.0	1.35	1.09	.81	.57
134949CH	L90-5W	Rayex	T90S5D12-5	1A	SPDT	5VDC	27	240VAC/28VDC	20A	6	1.3 x 1.1 x .80	2.49	2.15	1.93	1.65
174449CH	LU-5	Rayex	T81H5D215	3B	SPDT	5VDC	125	120VAC/24VDC	1A/2A	6	.60 x .40 x .45	1.79	1.66	1.55	1.49
187151CH	G5LE-1DC5	Omron	_	7G	SPDT	5VDC	63	120VAC/30VDC	10A/8A	5	.90 x .65 x .75	1.49	1.30	1.15	1.09
187240CH	G5V-1-DC5	Omron	_	8H	SPDT	5VDC	166.7	125VAC/24VDC	.5A/1A	6	.50 x .30 x .40	2.05	1.79	1.59	1.50
104926CH	733SPDT12VDC*	Song Chuan	T90N5D12-12	1D	SPDT	12VDC	155	240VAC/28VDC	20A/10A	6	1.2 x .90 x .63	1.85	1.69	1.49	1.27
129349CH	832-IC-S	Song Chuan	T90S5D12-12	1A	SPDT	12VDC	155	277VAC/28VDC	20A/10A	6	1.2 x 1.0 x .75	2.15	1.90	1.69	1.39
186669CH	G2R-14-DC12	Omron	_	91	SPDT	12VDC	275	250VAC/30VDC	10A	5	1.2 x .51 x 1.0	2.99	2.85	2.69	2.55
172937CH	JS1-12V	Nais (Aromat)	T72M5D121-12	6F	SPDT	12VDC	400	125VAC/24VDC	10A/5A	5	.85 x .62 x .63	1.09	.99	.89	.75
144186CH	JZC-22F	Velleman	VR15M121C	2B	SPDT	12VDC	337	120VAC/28VDC	15A	5	.80 x .64 x .80	3.79	3.39	3.05	2.75
174431CH	LEG-12F	Rayex	T7CS5D12	2B	SPDT	12VDC	400	120VAC/24VDC	15A	5	.76 x .62 x .60	1.49	1.29	1.19	1.09
184461CH	G5V-1-DC12	Omron	_	8H	SPDT	12VDC	960	125VAC/24VDC	.5A/1A	6	.50 x .30 x .40	2.25	1.79	1.58	1.42
187282CH	G6A-234PSTUSDC5	Omron	_	10J	DPDT	5VDC	125	125VAC/30VDC	.3A/1A	8	.80 x .33 x .40	3.95	3.63	3.33	3.07
174377CH	LM2-12D	Rayex	RKA5DZ12	4C	DPDT	12VDC	270	250VAC/30VDC	5A	8	1.2 x .48 x 1.0	2.49	2.25	1.95	1.75
187258CH	G5V-2-DC12	Omron	_	11K	DPDT	12VDC	288	125VAC/30VDC	.5A/2A	8	.81 x .40 x .45	2.49	2.28	2.02	1.82
200740CH	G5V-2-H1-24	Omron	_	11K	DPDT	24VDC	2800	125VAC/24VDC	.5A/1A	8	.81 x .40 x .45	2.59	2.35	1.89	1.39
215909CH	RKA-7DZ-12	P&B	_	121	DPST-NO	12VDC	270	250VAC/24VDC	5A/5A	6	1.16 x .57 x 1.05	2.29	1.95	1.69	1.39

Manufacturer may vary

#### **General Purpose Relays** JAMECO ValuePro

#### LB2 Series

- · Contact rating: 240VAC/30VDC @ 12A DPDT
- Mechanical life: 10,000,000 operations • 8-pin
- Electrical life: 100,000 operations min. at rated load

Part No.	Product No.	P & B Cross Ref.	Coil Voltage	1	10	50	100
172718CH	LB2-12DS	K10-11D15-12	12VDC	\$4.99	\$4.49	\$3.99	\$3.59
175564CH	LB2-24DS	K10-11D15-24	24VDC	5.99	5.49	4.93	4.49
175572CH	LB2-110AS	K10-11A15-120	110VAC	6.25	5.49	4.99	4.39

#### LB4H Series

- Insulation resistance: 1,500M $\Omega$  @ 500VDC
- Mechanical life: 10,000,000 operations
   4PDT
- Contact rating: 240VAC/30VDC @ 5A • 14-pin
- Electrical life: 100,000 operations min. at rated load

Part No.	Product No.	P & B Cross Ref.	Coil Voltage	1	10	25	50
291506CH	LB4H-12DS	KHAU-17D12-12	12VDC	\$4.45	\$4.33	\$4.20	\$4.03
175601CH	LB4H-24DS	KHAU-17D12-24	24VDC	5.09	4.93	4.77	4.36
175610CH	LB4H-110AS	KHAU-17A12-120	110VAC	4.69	4.58	4.47	4.24

Relay So	cket	1	75530CH	1/5550	СП	
• DIN rail s	snap socket f	or LB2 & LB4H	relays 🍍		되면	
Part No.	Product No.	P & B Cross Ref.	Pins	1	10	50
175530CH	PTF-08A-A	27E895	8	\$5.95	\$5.39	\$4.85
175556CH	PYF-14A-A	27E894	14	3.95	3.49	2.95

#### **KHAU Type Relay**

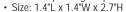
- Insulation resistance: 1,500MΩ @ 500VDC 4PDT 14-pin
- Life: (mechanical) 10,000,000 operations; (electrical) 100,000 operations min. at rated load • Contact rating: 220VAC/24VDC @ 5A
- Part No. Product No. P & B Cross Ref. Coil Voltage 10 50 **183011CH** GM4PDT12DF 12VDC ...... \$6.95 KHAU-17D12-12 \$6.38 \$6.04 \$4.99



#### Beta Electric General Purpose Relays

#### Pin Type Terminals

- DPDT 8-pin octal style plug
- Contact rating: 120/240VAC 28VDC @ 10Ā
- Ambient operating temp.: -10°C to +50°C



Product No.

BTA1 Series Relavs







141153CH

Part No.	Product No.	NTE Cross Ref.	Coil Voltage 1	10	50
139766CH	BTA1-2C-12VDC	R02-11D10-12	12VDC \$9.49	\$8.55	\$7.69
139740CH	BTA1-2C-120VAC	R02-11A10-120	120VAC 9.95	8.79	7.99

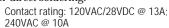
139740CH

#### BTA1 Series Sockets

Part No.	Voltage	Current	Pins	Dimensions 1	10	50
141145CH	250VAC	20 amps	8	2.0"L x 1.6"W x 0.8"H \$3.99	\$3.65	\$2.99
141153CH	250VAC	20 amps	11	2.0"L x 1.7"W x 1.2"H <b>5.19</b>	4.67	4.11

#### BTA2 Series Quick Connect Blade Terminal

Flat terminals (0.187" x 0.020") for standard plug-in mounting; also accepts quick-connect receptacles or direct soldering.



Ambient temperature operating: -30°C to +50°C





141161CH

Size: 1.5"L x 1.4"W x 2.2"H 3PDT • 11-pin

Part No. Product No. NTE Cross Ref. Coil Voltage 50 10 24VDC ...... \$8.69 139854CH BTA2-3C-24VDC R10-14D10-24 \$8.39 \$8.63

#### BTA2 Series Socket

Part No.	Voltage	Current	Pins	Dimensions	SALE			
141161CH	250VAC	20 amps	11	3.0"L x 1.4"W >	(1.0"H <del>\$3.95</del> <b>\$3</b>	.15	\$2.84	\$2.58

175554CU

#### DC/AC and DC/DC Solid State Relays

- · Screw terminal with hardware
- · Photo isolation

· Zero crossing

- · Metal mounting base
- Manufacturer may vary





















153058CH 187004CH 164996CH (Fig. 1) (Fig. 2) (Fig. 3) (Fig. 4) (Fig. 5) (Fig. 6) (Fig. 7) (Fig. 8)

	Control Contact		Contact	Contact			Terminal	Agency	Size		Pricing					
Part No.	Product No.	Mfr.	Voltage	Туре	Style	Voltage	Current	Pins	Fig.	Туре	Approval L" x W" x H"		1	10	50	100
						Solid	d State	Relay	s DC	C/AC Type						
153058CH	KSD203AC2	COSMO	4-32VDC	DC/AC	SPST	240VAC	3A	4	2	Solder Lead	Solder Lead —		\$9.95	\$8.95	\$7.95	\$7.25
162341CH	62341CH   ESR51024-010   Excel   3-32VDC   DC/AC   SPST   240VAC   10A   4		4	4	Screw Terminal	UL	1.7 x 1.1 x 2.3	15.95	14.39	12.95	11.65					
162368CH	ESR51024-025	Excel	3-32VDC	DC/AC	SPST	240VAC	25A	4	4	Screw Terminal UL	UL	1.7 x 1.1 x 2.3	21.95	19.79	17.79	16.05
162405CH	ESR51024-040	Excel	3-32VDC	DC/AC	SPST	240VAC	40A	4	4	Screw Terminal	UL	1.7 x 1.1 x 2.3	22.99	20.69	18.69	16.79
105081CH	615-8500 ♣	Teledyne	3-32VDC	DC/AC	SPST	250VAC	10A	4	3	Screw Terminal	UL	1.7 x 1.1 x 2.3	15.99	14.39	12.99	11.69
192815CH	KSD240AC8	COSMO	4-32VDC	DC/AC	SPST	250VDC	40A	4	3	Screw Terminal	_	1.8 x 0.6 x 2.3	17.15	15.58	14.17	13.75
175214CH	KB20C02A	Kyoto	3-32VDC	DC/AC	SPST	280VAC	! 2A	4	1	Solder Lead	_	1.4 x 0.3 x 1.5	5.95	5.69	5.32	5.05
127790CH	D2W202F	Crydom	3-32VDC	DC/AC	SPST	280VAC	. 2A	4	8	Solder Lead	UL/CSA	1.7 x 0.4 x 1.3	7.19	6.59	6.19	5.89
176698CH	KB20C06A	Kyoto	3-32VDC	DC/AC	SPST	280VAC	6A	4	1	Solder Lead	_	1.4 x 0.3 x 0.9	9.99	8.99	7.99	7.19
176719CH	KD20C40AX	Kyoto	3-32VDC	DC/AC	SPST	280VAC	40A	4	5	Screw Terminal	_	1.7 x 0.9 x 2.3	19.99	17.99	16.19	14.59
176735CH	KD20C75AX	Kyoto	3-32VDC	DC/AC	SPST	280VAC	75A	4	5	Screw Terminal	_	1.7 x 0.9 x 2.3	39.95	35.99	32.39	29.15
204441CH	TD2420Q	Crydom	4-15VDC	DC/AC	4PST	280VAC	! 20A	13	-	Solder Lead	UL/CSA	2.3 x 1.8 x 0.9	56.95	51.25	43.59	32.69
186992CH	G3NA-210B-DC5-24	Omron	5-24VDC	DC/AC	_ i	240VAC	. 10A	4	6	Screw Terminal	UL/CSA	1.7 x 1.1 x 2.3	14.29	13.55	12.89	12.25
187004CH	G3NA-220B-DC5-24	Omron	5-24VDC	DC/AC	_ i	240VAC	20A	4	6	Screw Terminal	UL/CSA	1.7 x 1.1 x 2.3	19.95	17.95	15.95	13.95
164988CH	S101S02	Sharp	1.2VDC@20mA	DC/AC	- :	125VAC	1.5A	4	7	Solder Lead	UL/CSA	0.9 x .16 x .63	3.95	3.49	2.95	2.25
164996CH	S202TA1	Sharp	1.2VDC@20mA	DC/AC	- :	200VAC	2.0A	4	7	Solder Lead	UL/CSA	0.9 x .16 x .63	4.95	4.49	4.05	3.65
Solid State Relay DC/DC Type																
172591CH	KF0602D	Kyoto	3-32VDC	DC/DC	SPST	60VDC	2A	4	1	Solder Lead	_	1.4 x 0.3 x 0.9	\$9.95	\$8.95	\$7.95	\$6.95
175222CH	KF0604D	Kyoto	3-32VDC	DC/DC	SPST	60VDC	4A	4	1	Solder Lead	_	1.5 x 0.3 x 0.9	11.95	11.25	10.25	9.22
176647CH	KG1005D	Kyoto	3-32VDC	DC/DC	SPST	120VDC	5A	4	5	Screw Terminal	_	2.3 x 1.7 x 0.9	26.99	24.29	21.79	19.59
176655CH	KG1010D	Kyoto	3-32VDC	DC/DC	SPST	120VDC	10A	4	5	Screw Terminal	_	2.3 x 1.7 x 0.9	29.99	26.99	24.29	21.89
♣ Pull – Ev	tra Caulinga		•													

♣ Pull = Extra Savings

#### **DIP Relays**

· Logic control levels · Long life with reliable operation · Moisture resistant · Compatible with IC sockets · Compact design/construction · Excellent for PCB applications























Schematic 1

Schematic 3

Schematic 4

Schematic 5

Schematic 6

	Mir. Cross		Contact	Contact	Coll	Coll		Contact		Jameco		Size	Leads		Pric	ıng	
Part No.	Reference No.	Manufacturer	Schem.	Form	Voltage	Ohms	Contact Voltage	Current	Pins	Socket	Fig.	L x W x H (in.)	A x B x C (in.)	1	10	50	100
106462CH	201A05	Excel Cell Elect.	1	SPST-NO	5VDC	500	100VDC	0.5A	8	37161	3	.78 x .25 x .20	.10 x .40 x .30	\$2.15	\$1.81	\$1.52	\$1.25
138430CH	2D1A05	Excel Cell Elect.	2	SPST-NO	5VDC	500	100VDC	0.5A	8	37161	3	.77 x .30 x .22	.10 x .40 x .30	2.29	1.95	1.65	1.34
215896CH	OJE-SS-109LMF	OEG	6	SBT-NO	9VDC	400	250VAC/30VDC	3A/3A	4	_	1	.71 x .39 x .57	.50 x .60 x .30	2.29	1.95	1.69	1.39
106471CH	201A12	Excel Cell Elect.	1	SPST-NO	12VDC	1000	100VDC	0.5A	8	37161	3	.78 x .25 x .20	.10 x .40 x .30	2.29	1.95	1.65	1.39
138448CH	2D1A1200	Excel Cell Elect.	2	SPST-NO	12VDC	1000	100VDC	0.5A	8	37161	3	.77 x .30 x .22	.10 x .40 x .30	2.25	1.95	1.75	1.49
138456CH	202A05	Excel Cell Elect.	3	DPST-NO	5VDC	140	100VDC	0.5A	8	37161	3	.77 x .30 x .28	.10 x .40 x .30	3.49	3.15	2.69	2.19
173913CH	AZ831-2C-5DSE	American Zettler	4	DPDT	5VDC	125	125VAC/100VDC	.5A/1.25A	8	37401	1	.79 x .38 x .44	.18 x .28 x .29	2.35	2.15	1.69	1.25
139977CH	RSB5S	Shin Mei	4	DPDT	5VDC	125	120VAC/30VDC	1A/2A	8	37372	1	.79 x .39 x .37	.20 x .40 x .30	2.49	2.25	1.95	1.75
99338CH	LM12C00	Clare	4	DPDT	6VDC	71	125VAC/100VDC	2A	8	37372	1	.79 x .40 x .43	.20 x .40 x .30	2.49	2.25	1.79	1.35
99311CH	DS2Y-S-DC12V*	Aromat (NAIS)	4	DPDT	12VDC	720	110VAC/30VDC	.3A/1A	8	37372	1	.79 x .40 x .43	.20 x .40 x .30	2.49	2.31	2.05	1.75
99901CH	LX200D00	Clare	4	DPDT	12VDC	720	125VAC/100VDC	2A	8	37372	1	.79 x .40 x .30	.20 x .40 x .30	6.95	6.25	5.63	4.49
99320CH	LM12E00*	NEC	4	DPDT	24VDC	1110	125VAC/100VDC	2A	8	37372	1	.79 x .40 x .43	.20 x .40 x .30	2.95	2.69	2.39	2.15
136549CH	DS4E-M-DC5V*	Aromat	5	4PDT	5VDC	62.5	125VAC/30VDC	.6A/2A	14	112299	2	1.40 x .40 x .36	.20 x .30 x .30	5.49	4.95	4.45	4.05
176313CH	DS4E-M-DC12V	Aromat	5	4PDT	12VDC	360	125VAC/30VDC	.6A/2A	14	112299	2	1.40 x .40 x .36	.20 x .30 x .30	6.95	6.29	5.29	4.39
206543CH	DS4E-S-DC5V-1C-N137	Aromat	5	4PDT	5VDC	125	250VAC/220VDC	2A	14	112299	2	1.40 x .40 x .42	.20 x .30 x .30	3.79	3.45	3.15	2.85

\*Manufacturer may vary

#### **T9A Series Relay**

#### Low Cost PC Board or Panel Mount Only

- · Contact form: SPDT
- · Contact current: 20A/10A
- · Coil voltage: 12VDC
- 5-pin Contact volt.: 240VAC/28VDC
   Coil: 155Ω
- Terminal type: 0.1" disconnect (2); 0.25" disconnect (3)

Cross Ref. No. P & B Cross Ref. Dimensions (LxWxH) Part No. 137357CH 953-IC-12DM T9AS5D52-12 2.0" x 1.6" x 1.8" .. **\$2.55 \$2.45 \$2.19 \$1.75** 



50

10

#### **Reed Type Relay** • Contact form: SPST-NO

- Manufacturer: Bestar
- · Coil voltage: 12VDC • Coil:  $1050\Omega$
- Contact voltage: 120VAC/60VDC Contact current: 0.1A Dielectric strength: 1500VDC (between contact and coil)
- 4-pin Operating temperature: -30°C to +60°C Terminal type: PCB solder

Mfr. Cross Ref. No. Dimensions Part No. 1.0"L x .37"W x .38"H \$1.65 \$.98 111448CH RC108T



#### 24VDC Liquid Level Sensors

Combine the control box and sensor to activate a water valve. When sensor is triggered by a

tank in either full or empty condition, it will trigger an output status change.

#### 176250CH (Empty)

- · Diameter: 1.0
- · Overall Length: 3.9"
- Travel Distance: 2.0"

#### 176268CH (Full)

- · Diameter: 1.1
- · Overall Length: 2.6"
- Travel Distance: .72"



176250CH

**Quantity SAVE** 

Part No.	Description	1	10	25
176250CH	Sensor empty type	\$9.95\$7.39	\$6.70	\$6.09
176268CH	Sensor full type	<del>\$11.45</del> 6.79	6.17	5.61

## \overline Fuiikura

#### -1.1 to 2.5 PSI **Pressure Sensor**

- · Measurable pressure range: -1.1 to 2.5 PSI
- · Maximum load pressure: twice of rated pressure
- · Operating voltage: 5V @ <10mA
- · Maximum excitation voltage: 8V · Pressure type: gauge pressure
- Volt-level output
- · Pressure media: non-corrosive gas
- On-chip amplification and temp. compensations
- Pre-calibration of offset voltage and span
- 1/8" diameter tubing is applicable
- Size: .55"L x .47"W x .20"H

Part No.	Product No.	1	10	100
196103CH	XFPN-025-KPGRNW1	\$24.95	\$21.25	\$15.95

#### Servolo 0 to 7 PSI Pressure Sensor

**Quantity SAVE** 

- · Max. load pressure: 10.5 PSI
- · Input excitation: 1.5mA
- Span output: 60-140mV
- Bridge resistance:
- $5k\Omega \pm 1k\Omega$ Accuracy: ±5% full scale
- High output, accuracy and
- stability · Low noise
- 1/8" diameter tubing is applicable
- Size: 0.5"L x 0.5"W x 0.2"H

Part No.	Product No.	1	10	100
163731CH	FPM07PG	\$11.95	\$10.19	\$7.65

# 0 to 1.45 PSI Pressure Sensor

- · Typical full scale span @ 35mV: 0-10kPa (0-1.45 PSI)
- Maximum pressure (P<sub>MAX</sub>): 75kPa (10.875 PSI)
- · Operating volt. (typical): 3VDC @ 6mA
- · Applications: air movement control, level indicators, leak detection, robotics and industrial controls
- 1/8" diameter tubing applicable
- Size: 0.7"Dia. x 0.78"Thick (with nozzle)

Part No.	Product No.	. 1	10	100
218827CH	MPX10GS	\$8.99	\$7.99	\$7.19

For a Full Line of Pressure Sensors

see page 43



#### 12VDC Inductive Proximity Switch Sensors

Cylindrical and Square Styles



- Nominal operating voltage: 12VDC
- Current consumption: 10mA max.
- Switching frequency: 1.5kHz
- · Sensing target: inductive type magnetic metal
- Sensing distance: ±10% (tin)
- · Short circuit protected · LED status indicator
- Fast response 6' long cable Pre-tinned pigtail









248858CH (12mm)

155571CH (18mm)

		Output	Effec. Dist.	Standard Target	Size	Mounting	Pricing		
Part No.	Product No.	Circuit	(Iron)	(Iron) (mm)	(L" x W" x H")	Hole (in.)	1	10	25
155547CH	S18-05N-1	NPN	0-4.0mm	17 x 17 x 1	1.4 x 1.4 x 0.7	0.112	\$9.95	\$8.95	\$7.95
167020CH	TS12-02N-1	NPN	0-1.6mm	12 x 12 x 1	1.8"L x 0.46"Dia.	0.46	20.65	18.61	16.75
248858CH	TS12-02P-1	PNP	0-1.6mm	12 x 12 x 1	1.8"L x 0.46"Dia.	0.46	19.99	17.99	15.99
155571CH	TS18-05N-1	NPN	0-4.0mm	18 x 18 x 1	1.6"L x 0.70"Dia.	0.70	24.95	22.46	20.21

136653CH

#### **Ultrasonic Sensor Sets**

- · Use for motion or distance sensing
- Frequency: 40kHz ±1.0kHz
- Aluminum case

#### 136653CH:

#### Transmit/Receive Set

- Capacitance: 2000pF ±30%
- Case size: 0.47"H x 0.62" Dia.
- Transmitter: bandwidth 4.0kHz/112dB, sound pressure level 119dB/40±1.0kHz
- Lead length/spacing: 0.39"
- Receiver: bandwidth 3.5kHz @ -71dB,
- min. sensitivity 65dB/40±1.0kHz (0dB vs 1V  $\mu$ bar) R=3.9k $\Omega$

#### 139491CH: Transmit/Receive Set

- Capacitance: 2000pF ±20%
- · Lead length/spacing: 0.28"
- Transmitter: bandwidth 5.0kHz/100dB, sound pressure level 112dB/40 ±1.0kHz Receiver: bandwidth 5.0kHz @ -75dB, min.
- sensitivity 67dB/40 ±1.0kHz (0dB vs 1V μbar) R=3.9kΩ
- Case size: 0.30"H x 0.43" Dia.

Part No.	Mfr. Cross Ref. No.	1	10	50
136653CH	40TR16F	\$6.95	\$6.29	\$5.65
139491CH	40TR12B	. 6.95	6.29	5.65

#### **Latched Hall Effect Sensor**

- · SP (south pole): on NP (north pole): off
- Supply voltage: 20Vcc
- Supply current: 4mA Output current: 20mA
- Max. operating point: ≤ 130
- Max. release point (gauss): ≤ 130

Part No.	Mfr. Cross Ref. No. 1	10	100	100
174043CH	HI-300 \$. <b>95</b>	\$.86	\$.77	\$.5

#### Vibration/Tilt Switch Sensor

Detects motion or vibration when the switch is mounted such that its main axis is near to the horizontal.

- Contact form: SPDT
- Maximum contact load: 24VDC/115VAC @ 0.5A
- Typical contact resistance:  $1\Omega$ (measured at 5VDC @ 0.01A with switch tilted 45 beyond operating point)
- Tilt: one plane only; ±10 degrees included angle
- Minimum operating temperature: -37°C

Part No.	Mfr. Cross Ref. No.	1	10	100
235926CH	Series 3004 \$1.4	<sup>9</sup> \$.99	\$.91	\$.82

#### Feel the Pressure, and Don't!

I remember hearing about measurement and control applications in the late 70's. Back then, analog design was very prominent, and it wasn't unusual to develop an amplifier board for each analog input in a circuit.

Libraries of compensation code had not been extensively developed nor widely distributed, and so each sensor amplifier often had gain, offset and linearization implemented in discrete hardware.

Part of the assembly process included calibrating the board, which required additional manufacturing time. Later, the board required testing and sometimes recalibration to keep it in spec... more time.

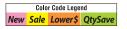
Over time we have forgotten about the complications of the analog world.

Digital design is easy. Now compensation is performed in software. Libraries of routines abound on the internet,

and closed-loop designs permit self-calibration. And, many devices like pressure and temperature sensors are developed in silicon (see page 43).

Thanks to all these changes, I don't feel the pressure others once felt when analog sensing was considered. Designing analog sensors is just about as mundane as designing digital. My designs are more effective in solving real world analog problems, and maintenance requirements are significantly diminished.

> Practical Practices Money Saving Tips for the Engineer



NEW

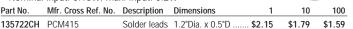
#### 1.2" (30mm) PCB Mountable Speaker

· Mylar diaphragm · Pin spacing: 15mm

· Ideal for PC board mounting • Impedance:  $8\Omega$ 

• Frequency range: 700 - 5000Hz Output SPL: 82 dB

Nominal input: 0.15W; max. input: 0.2W





speaker terminals. Color-coded red/black connections for positive and negative side of speakers, screwmount plates for easy installation.

· Requires 1.92" round cut-out for recessed mounting

Part No.	Description	Size	Price
318641CH	Round speaker terminals	2.95" diameter	\$.43



320135CH: with 2" lead wires • Pre-tinned speaker lugs • Large magnet • Anodized metal surfaces

Braided copper voice coil leads • Paper diaphragm

Part	Mfr. Cross	Dimensions	In	put	Impedance	Output	Frequency	Magnet Size	Pricing		
Number	Ref. No.	(Dia." x D")	Nom (W)	Max (W)	(Ω)	SPL (dB)	Range (Hz)	(Dia." x H")	1	10	100
320362CH	TRF-050F	2.0 x 0.7	0.25	0.5	8	86	320 - 4000	1.3 x 0.4	\$1.95	\$1.51	\$1.33
135589CH	FE200	2.0 x 0.7	0.2	0.4	8	83	420 - 5000	1.3 x 0.4	1.59	1.33	1.09
320135CH	C35128A	2.0 x 0.7	0.2	0.4	8	_	_	1.3 x 0.4	1.59	1.33	1.09
308267CH	GA0501M	2.0 x 0.8	0.25	0.5	8	85	500 - 7800	0.9 x 0.4	1.99	1.79	1.65
10840CH	FE201	2.2 x 0.7	0.2	0.4	8	88	400 - 4500	1.3 x 0.4	1.59	1.35	.99
177130CH	57RF07	2.2 x 0.8	0.5	0.9	45	88	500 - 8000	1.6 x 0.5	.54	.49	.43
320354CH	TR-066F	2.6 x 0.9	0.25	0.5	8	85	440 – 3500	1.3 x 0.4	1.45	1.24	1.14



For speaker wire,





135589CH Side

**Square Ferrite Speakers** 

Pre-tinned speaker lugs
 Large magnet
 Anodized metal surfaces
 Braided copper voice coil leads
 Paper diaphragm

Part		Mfr. Cross	Dimensions	In	Input		Output	Frequency	Magnet Size	Pricing		
Num	nber	Ref. No.	(Dia." x D")	Nom (W)	Max (W)	(Ω)	SPL (dB)	Range (Hz)	(Dia." x H")	1	10	100
135	693CH	FEB200	2.0 x 0.7	0.2	0.3	8	82	500 - 6000	1.3 x 0.5	\$1.59	\$1.45	\$1.29
249	463CH	66SF25	2.6 x 0.8	_	0.5	25	10	320 – 4000	1.3 x 0.5	2.49	2.09	1.59
319	58CH	FEB216	2.6 x 0.8	0.2	0.4	16	85	330 - 8000	1.3 x 0.5	2.25	1.99	1.79
999	95CH	FEB204	2.6 x 0.9	3.0	4.0	4	95	300 – 14000	1.8 x 0.5	2.49	2.25	1.99





99995CH Side

99995CH Back

Flat-Magnet, Square Piezo Speakers

• Excellent for alarms or other voice uses • Stainless steel diaphragm

Dimensions

(Dia." x D")

2.0 x 0.8

2.2 x 0.8

17x06

1.6 x 2.8 x 1.2

Part	Mfr. Cross	Dimensions	In	Input		Output	Frequency	Magnet Size		Pricing	
Number	Ref. No.	(Dia." x D")	Nom (W)	Max (W)	(Ω)	SPL (dB)	Range (Hz)	(Dia." x H")	1	10	100
34024CH	AZ30S	1.2 x 0.2	0.4	0.8	8	70	1300 - 8000	1.2 x 0.1	\$1.69	\$1.52	\$1.35
76030CH	AZ40S	1.6 x 0.2	0.4	0.8	8	70	600 - 6000	1.6 x 0.1	1.95	1.75	1.49





Alnico Speakers

· For computer case use Pre-tinned solder lugs

Mfr. Cross

Ref. No.

A0200

R0102

RA2425

A1527C02

Part

Number

88410CH

135765CH

111587CH

135811CH

· Paper diaphragm

Nom (W)

0.2

0.25

0.1

- Wide frequency response
- Large magnet

0.3

		impeda	1100. 022				
nį	put	Output	Frequency	Magnet Size		Pricing	
)	Max (W)	SPL (dB)	Range (Hz)	(Dia." x H")	1	10	1
	0.4	87	430 – 4500	0.5 x 0.4	\$1.49	\$1.29	\$1.
	0.5	07	400 4000	05404	1 50	1 25	

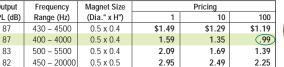








Fig. 2

Micro Speakers

Part	Mfr. Cross		Dimensions	In	put	Output	Frequency	Magnet Size		Pricing	
Number	Ref. No.	Fig.	(Dia." x D")	Nom (W)	Max (W)	SPL (dB)	Range (Hz)	(Dia." x H")	1	10	100
355514CH	GC0201M	1	0.79 x 0.17	0.1	0.2	78	500 – 20000	0.26 x 0.06	\$1.39	\$1.25	\$1.18
307871CH	GC0401M	1	1.57 x 0.67	0.2	0.3	80	600 – 8000	0.71 x 0.43	2.89	2.59	2.49
355522CH	GF0271M	1	1.06 x 0.30	0.1	0.2	82	500 – 20000	0.49 x 0.15	2.29	2.04	1.86
307854CH	GC0251KP*	2	1.0L x 0.55W	1.0	1.5	80	750 – 3500	0.43 x 0.08	1.85	1.75	1.65





Fig. 1

Fig. 2

# Microphone Cartridges

**Omni-directional Electret Condenser Microphone Cartridges** 

#### Applications:

\* Rectangular micro speaker

Tape recorders, intercoms, hearing aids, telephone and answering devices, sonic controlled toys and sensors

 Used for recording, testing, and monitoring Modems for computers











196488CH 140986CH

				Frequency	Max. Op.	Stand Op.	Current	Sensitivity	S/N		Size	Pricing			
Part No.	Туре	Sensitivity	Impedance	(Hz)	Volt. (VDC)	Volt. (VDC)	(Max.)	Reduction	Ratio	Terminals	(H x Dia.)	1	10	100	1000
160979CH	WM-64PKT	-44 ±3dB	>2.2kΩ	20-16,000	10V	2.0V	0.5mA	-3dB @ 1.5V	>58dB	PC pin leads	.10" x .24"	\$.72	\$.65	\$.52	\$.35
136573CH	WM-60PC	-54 ±2dB	>2.2kΩ	20-12,000	12V	4.5V	0.5mA	-3dB @ 3V	>40dB	PC pin leads	.30" x .38"	.53	.48	.43	.39
320004CH	YILI	-38 ±3dB	>2.2kΩ	20-16,000	10V	4.5V	0.8mA	-3dB @ 3V	>40dB	Lead wires	.23" x .38"	.62	.476	.259	.245
320178CH	EM-99	-64 ±2dB	>2.2KΩ	20-12,000	12V	4.5V	0.5mA	-3dB @ 3V	>40dB	PC pin leads	.27" x .39"	1.49	1.25	.99	.81
196488CH	JL-061C	-58 0dB	2kΩ	20-20,000	10V	2.0V	0.04mA	-3dB @ 1.5V	>55dB	Solder pad	.10" x .24"	1.29	.99	.89	.79
140986CH	CRM919	-64 ±3dB	1kΩ ±30%	20-10,000	12V	3.0V	0.8mA	-3dB @ 3V	>40dB	Lead wires	.90" x .39"	1.49	1.14	1.05	.89

5/1.5

12/25

12/10

12/50

12/50

12/50

1 - 5/3 - 16

4 - 28/3 - 16

6 - 16/3 - 12

6 - 16/6 - 16

24/20

30 - 120/7 - 19

30 - 120/6 - 22

6 - 28/4 - 16

6 - 28/4 - 16

24/15

6 - 16/40 - 60

30 - 120/6 - 24

30 - 120/6 - 24

6 - 16/6 - 22

6 - 16/6 - 22

6 - 16/6 - 22

12/12

12/18

24/20

3 - 20/3 - 16

12/15

12/10

12/10

12/10

12/250

12/8

12/15

5 - 16/3 - 14

12/7

5/1.5

12/5.8

12/10

5/1.5

9

3

10

10

10

7

11

12

7

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14

14

14

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20 3V

5 - 30

3 - 24

3 - 24

9 - 12

9 - 12

5 - 14

1 - 5

4 - 28

6 - 16

6 - 16

4 - 28

30 - 120

30 - 120

6 - 28

6 - 28

1 - 28

6 - 16

30 - 120

30 - 120

6 - 16

6 - 16

6 - 16

1.5 -30

3 - 24

1.5 - 28

3 - 20

3 - 28

3 - 28

3 - 24

3 - 24

6 - 16

3 - 28

3 - 24

5 - 16

3 - 16

5 - 25

3 - 16

3 - 15

2 - 5

### JAMECO ValuePro

Magnetic Transducers

### **Buzzers and Sonic Transducers**

MEW

### **Quantity SAVE**



				-							
Part	Manufacture		Operating Volt.	Volt. Range	Freq.	Sound		Pricing			
Number	Cross Ref. No.	Fig.	(Vp-p/mA)	(Vp-p)	(Hz)	(dB)	Dimensions	1	10	25	50
207917CH	DB105GFPN	1	1.5/30	1 – 2	2048	75	.22"H x .47"Dia.	\$1.49	\$1.35	\$1.19	\$.99
138721CH	DB111A-PN	2	1.5/10	1 – 2	2048	80	.32"H x .46"Dia.	1.49	1.35	1.19	.99
335636CH	PB-12N23P-05	3	5/50	4.5 - 5.5	2300	85	10mm H x 12mm Dia	2.75	2.65	2.53	2.33
335644CH	PB-12N23P-12	3	12/50	9 - 15	2300	85	10mm H x 12mm Dia	2.69	2.59	2.50	2.18
138739CH	DBX05-PN	2	5/40	3 – 8	2400	85	.35"H x .46"Dia.	1.49	1.35	1.19	.99
		_									

· Applied voltage: 1/2 duty, square wave

		,	V 1 1 7	V F F7	_ ` /	V /			-	-	
207917CH	DB105GFPN	1	1.5/30	1 – 2	2048	75	.22"H x .47"Dia.	\$1.49	\$1.35	\$1.19	\$.99
138721CH	DB111A-PN	2	1.5/10	1 – 2	2048	80	.32"H x .46"Dia.	1.49	1.35	1.19	.99
335636CH	PB-12N23P-05	3	5/50	4.5 - 5.5	2300	85	10mm H x 12mm Dia	2.75	2.65	2.53	2.33
335644CH	PB-12N23P-12	3	12/50	9 - 15	2300	85	10mm H x 12mm Dia	2.69	2.59	2.50	2.18
138739CH	DBX05-PN	2	5/40	3 – 8	2400	85	.35"H x .46"Dia.	1.49	1.35	1.19	.99
106500CH	SBT-1205	2	5/40	3 – 8	2400	85	.40"H x .48"Dia.	1.49	1.35	1.25	1.09
207950CH	UDX05CPN	3	5/100	4 – 8	3100	85	.22"H x .35"Dia.	1.35	.99	.92	.83
1/0	- D										





Fig. 2

Fig. 5



Magnetic	Buzzers

207984CH	TDB01	4	1.5/30	1.25 – 2	2300	75	.47"H x .38"Dia. \$2.	\$2.49	\$2.29	\$1.99	\$1.79
76064CH	TDB05-PN	4	5/30	4 – 7	2300	85	.35"H x .46"Dia.	2.99	2.79	2.69	2.59
207976CH	TDB12	4	12/30	8 – 15	2300	85	.47"H x .38"Dia.	2.49	2.39	2.29	2.19







Fig. 6

Piezo	Buzzers

PT-2725W

PK-20A25P

PK-27A25PS

MAS800

MASSONS

MAS806

SC105

SNP428

SBM616PU

SC616CP

11D3240

SC110J

SC1100

SC628P

SC628N

11S3240

LSC616N

SC110N

SC110NJ

SC616N

SC616NJ

SC616NP

PK-21N30W

PK-21A31P

7S3240-I A

PK-27N36W

PF-20A35FW

PFD-20A35EW

PK-20A35EW

PT-2038FW

PK-20A38P

MSR516N

PT-1540P

PK-12N40P

PT-2745W

AI -175

32S4120-PN

SL15R3120LA

MSR320

336356CH

335898CH

335986CH

335505CH

335513CH

335530CH

336663CH

337535CH

336639CH

336954CH

123537CH

336786CH

336840CH

337383CH

337359CH

32601CH

335484CH

336807CH

336815CH

336989CH

336997CH

337017CH

335978CH

335951CH

76021CH

335556CH

336049CH

335695CH

335804CH

335919CH

207992CH

336313CH

335927CH

335564CH

138712CH

336284CH

196357CH

70004011	I DD003-I IV	4	3/30	4-7	2300	00	.33 II A .40 Dia.	2.77	2.17	2.07	2.37
207976CH	TDB12	4	12/30	8 – 15	2300	85	.47"H x .38"Dia.	2.49	2.39	2.29	2.19
Piezo Bu	ızzers										
336428CH	PT-4175W	5	5/1.5	5- 30	750	87	14mm H x 44mm Dia	\$1.79	\$1.69	\$1.59	\$1.44
336276CH	PT-1250W	6	3/1.5	2 - 5	1250	85	13mm H x 30mm Dia	1.55	1.49	1.37	1.24
337210CH	SC628D	7	6 - 28/5 - 18	6 - 28	1900	75	1.28"H x 1.69" Dia	10.45	9.72	9.09	8.54
336305CH	PT-2020P	8	5/1.5	5 - 30	2000	80	22mm W x 7.2mm D x 26.6mm H	1.29	1.25	1.19	1.07
336022CH	PK-27N26W	5	12/15	3 - 28	2500	90	10mm H x 30mm Dia	3.49	3.39	3.24	2.99

2500

2500

2500

2800

2800

2800

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4500

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90

95

95

95

95

95

95

80

85

80

90

95

95

105

85

95

80

85

86

90

10mm H x 30mm Dia

18mm H x 23mm Dia

16mm H x 30mm Dia

15.2mm H x 26mm Dia

15.2mm H x 26mm Dia

15.2.mm H x 26mm Dia

1 28"H x 1 69" Dia

0.85"H x 1.64" Dia

0.62"H x 1.69" Dia

1.84"H x 1.69" Dia

2.41"H x 1.69" Dia

1.28"H x 1.69" Dia

1.84"H x 1.69" Dia

1.28"H x 1.69" Dia

1.4"H x 1.7"Dia

0.39"H x 0.91"Dia

1.84"H x 1.69" Dia

1.84"H x 1.69" Dia

1.28"H x 1.69" Dia

1.28"H x 1.69" Dia

1 28"H x 1 69" Dia

1.0"H x 1.1"Dia

0.39"H x 0.91"Dia

10mm H x 30mm Dia

25mmH x 28mm Dia

25mmH x 28mm Dia

25mmH x 28mm Dia

2.3"L x 1.8"W x 1.6"H

0.39"H x 0.91"Dia

9mm H x 17mm Dia

8mm H x 14mm Dia

5mm H x 30mm Dia

0.30"H x .54"Dia

0.30"H x 54"Dia

4.5mm H x 24mm Dia

18mm H x 23mm Dia

9.5mm H x 24mm Dia

13.5mm H x 24mm Dia

1.4"H x 1.7"Dia

85

3.75

4.19

4.95

5.69

5.85

10.95

9.35

14.99

21.49

4.19

29.29

14.99

15.69

11.99

4.95

29.35

26.15

26.45

11.69

17.69

17 69

2.75

3.89

4.99

2.55

3.49

5.09

5.59

2.79

6.95

1.15

3.55

3.99

2.49

2.69

3.29

1.05

.99

83

3.59

3.99

4.62

5.59

5.55

10 04

8.63

14.39

19.69

3.79

26.83

13.65

14.31

10.99

4.45

26.85

25.37

25.69

10.66

16.21

16.21

2.65

3.69

4.69

2.38

3.39

4 89

5.39

2.28

6.29

1.09

3.39

3.79

2.25

.95

2 45

3.07

.99

79

3.46

3.88

4.19

5.49

5.44

9 01

8.00

13.69

17.67

3.65

24.09

12.56

13.17

9.86

4.29

24.11

23.99

24.33

9.81

14.56

14 56

2.55

3.46

4.49

2.16

3.24

4.77

5.20

2.19

5.99

1.05

3.26

3.43

2.09

.89

2 29

3.05

.92

77

3.18

3.57

3.84

5.01

5.05

8 57

7.48

12.83

16.82

3.49

22.92

11.64

12.23

9.39

4.09

22.94

22.63

22.92

9.10

13.85

13 85

2.37

2.49

4.29

1.98

2.99

4 59

5.04

1.99

5.75

2.99

3.15

1.95

(2.09

2.69

.83

.82

.95





Fig. 7 Fig. 8

Fig. 9







Fig. 10

Fig. 12





Fig. 11



Fig. 13

Fig. 14

Fig. 15







Fig. 16

Fig. 17



Fig. 18

Fig. 19

Fig. 20

335855CH 336399CH Dual tone

### Mechanical/Electromechanical Buzzers

24871CH	63S109LA	16	9/30	6 – 12	400	75	1.3"L x 0.7"W x 0.6"H	\$2.49	\$2.19	\$1.99	\$1.79
140695CH	63S1120-LA	16	12/25	9 – 15	400	75	1.3"L x 0.7"W x 0.6"H	1.99	1.79	1.69	1.59
105822CH	CLB27	17	9/220	_	500	80	1.3"H x 2.0"Dia	1.39	1.29	1.25	1.19

# Diaza Sirans

FIEZU SII	Flezo Siliens Blue Part No. = Limited Quantity Available										
336188CH	PS-520	15	12/200	5 - 15	3000	105	40mm W x 57.5mm D x 44.5mmH	\$8.99	\$8.75	\$8.05	\$7.34
207888CH	18R3120 😂	18	12/120	9 – 15	1500-3100	105	3.4"L x 2.2"W x 1.3"H	5.99	5.79	5.49	5.29
336225CH	PS-562	19	12/40	5 - 15	2500/3500	100	16mm H x 42mm Dia	5.05	4.92	4.53	4.13
Piezo Sp	Piezo Speakers										

### 1250 85 | 13mm H x 30mm Dia | \$3.55 | \$3.39 | \$3.23 \$2.92 Order 24/7 Toll Free 1-800-831-4242

# Our friendly sales department will take your order 24x7x365 by phone, fax, web or email.

Order Anytime, Day or Night

335687CH PB-2712P

Part

Number

175636CH

102795CH

133612CH

133639CH

139791CH

133647CH

133655CH

139184CH



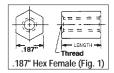
.187"/.250" Female

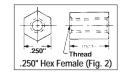
### Aluminum & Brass Threaded Standoffs

† Finish: Iridite (clear)¹ per MIL-C-5541-D; bright tin plate²; stainless steel³



.250" Male/Female





10 piece minimum

1000

\$.10

.10

.09

.11

.13

.11

.23

.32

Pricing

10

\$.21

.21

.20

22

.18

.14

.43

43

100

\$.15

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.12

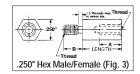
.20

.15

.13

.39

.39



.187" Hex Female

4-40 Thread (Fig. 1) .187" Hex

Hex

Length

.187"

.240"

.250"

.500"

.562

.625"

.750"

1.000"

Metal<sup>†</sup>

Brass<sup>2</sup>

Brass

Alum<sup>1</sup>

Alum<sup>1</sup>

Alum<sup>3</sup>

Alum<sup>1</sup>

Alum<sup>1</sup>

### .250" Hex Male/Female

4-40 Thread (Fig. 3) (Thread A: .250"; B: .187")

\* Prepackaged: order in increments of 10, 100 or 1000

Part		Hex		Pr	icing	
Number	Metal <sup>†</sup>	Length	1	10	100	1000
77585CH	Alum <sup>1</sup>	.250"	\$.41	\$.37	\$.17	\$.128
77593CH	Alum <sup>1</sup>	.375"	.43	.34	.19	.12
111755CH	Alum <sup>1</sup>	.500"	.49	.44	.36	.20
175628CH	Steel <sup>3</sup>	.580"	*	.19	.14	.12
139213CH	Alum <sup>1</sup>	.625"	.43	.39	.35	.31
139221CH	Alum <sup>1</sup>	.750"	.43	.39	.35	.21
139230CH	Alum <sup>1</sup>	1.00"	.49	.44	.36	.30
128565CH	Alum <sup>1</sup>	1.25"	.59	.53	.44	.38
166545CH	Alum <sup>1</sup>	1.50"	.75	.65	.59	.49

### .250" Hex Female 4-40 Thread (Fig. 2) .250" Hex

\* Prepackaged: order in increments of 10, 100 or 1000

					0, 100 0					
Part		Hex		Pricing						
Number	Metal <sup>†</sup>	Length	1	10	100	1000				
139192CH	Alum <sup>1</sup>	.250"	*	\$.16	\$.12	\$.08				
77500CH	Alum <sup>1</sup>	.375"	*	.20	.15	.09				
134762CH	Alum <sup>1</sup>	.437"	*	.21	.18	.15				
108370CH	Alum <sup>1</sup>	.500"	*	.25	.17	.10				
77518CH	Alum <sup>1</sup>	.625"	.42	.35	.19	.14				
133604CH	Alum <sup>1</sup>	.750"	.39	.35	.19	.14				
139205CH	Alum <sup>1</sup>	1.000"	.49	.35	.25	.15				

### .250" Hex Female 6-32 Thread (Fig. 2) .250" Hex

\* Prepackaged: order in increments of 10, 100 or 1000

Part		Hex	Pricing						
Number	Metal <sup>†</sup>	Length	1	10	100	1000			
77534CH	Alum¹	.250"	*	\$.22	\$.14	\$.08			
133591CH	Alum <sup>1</sup>	.375"	.32	.29	.13	.09			
77542CH	Alum <sup>1</sup>	.500"	*	.22	.17	.10			
77551CH	Alum <sup>1</sup>	.625"	*	.25	.19	.14			
77569CH	Alum <sup>1</sup>	.750"	.31	.28	.21	.13			
77577CH	Alum <sup>1</sup>	1.000"	.59	.35	.30	.16			
143407CH	Alum <sup>1</sup>	1.500"	.69	.61	.49	.42			
143440CH	Alum¹	1.750"	.79	.59	.48	.41			

### .250" Hex Male/Female

6-32 Thread (Fig. 3) (Thread A: .375"; B: .250")

10 piece minimum

Part		Hex	Pricing					
Number	Metal <sup>†</sup>	Length	10	100	1000			
133541CH	Alum¹	.250"	\$.39	\$.35	\$.21			
133567CH	Alum <sup>1</sup>	.375"	.39	.35	.22			
77606CH	Alum <sup>1</sup>	.500"	.32	.29	.23			
77622CH	Alum <sup>1</sup>	.750"	.39	.35	.28			
77649CH	Alum <sup>1</sup>	1.000"	.44	.40	.32			
206623CH	Steel <sup>3</sup>	1.250"	.40	.36	.32			

# **RAF** Instrumentation Handle

- 5/8" oval diameter
- 9/32" thick
- 10-32 internal thread size
- · Color: nickel plate
- · Base metal: brass

Part No.	Size (L" x H")	1	10	100
216821CH	3.0 x 1.3	\$2.95	\$2.25	\$1.69

### **Lowest Price Guarantee**

Found a product at a lower print advertised price? We'll beat that price by 10% right down to our cost!

### **SAE Hardware**

· Zinc-plated steel







Prepackaged: order in increments of 100 or 1000

Slotted Pan Head Machine Screws								
Part	Screw	Thread	Length	100 piece	e minimum			
Number	Size	IIIIeau	(inches)	100	1000			
38172CH	2-56	Std	.250	\$.025	\$.022			
40951CH	4-40	Std	.250	.019	.011			
40969CH	4-40	Std	.375	.017	.012			
106809CH	4-40	Std	.500	.018	.013			
106542CH	6-32	Std	.250	.018	.013			
42446CH	6-32	Std	.375	.019	.014			
42438CH	6-32	Std	.500	.019	.015			
106796CH	8-32	Std	.500	.04	.025			

•	Hex Nuts					
38164CH	2-56	Std	.183	\$.022	\$.014	
211123CH	4-40	Sm	.184	.023	.011	
40942CH	4-40	Std	.243	.025	.013	
42420CH	6-32	Std	.306	.023	.014	
51553CH	8-32	Std	.334	.02	.014	

		Flat Was	ners	
Part	Screw	Dia.	100 pied	e minimum
Number	Size	(inches)	100	1000
211131CH	4	.237	\$.019	\$.014
106825CH	4	.281	.022	.019
106833CH	6	.373	.022	.019
106841CH	8	.377	.04	.025
(F)				(F)

	men	iiai Tuulii L	JCK VVaSITETS				
106850CH	4	.258	\$.018	\$.015			
106868CH	6	.277	.018	.015			
106876CH	8	.323	.016	.015			
Split Lock Washers							
106788CH	2	.161	\$.024	\$.016			
211140CH	4	.201	.02	.015			

	,	Spill Lock V	vasiicis	
106788CH	2	.161	\$.024	\$.016
211140CH	4	.201	.02	.015
40977CH	4	.242	.02	.015
42462CH	6	.240	.011	.009
51609CH	8	.279	.012	.006

# 200 Piece Spring Assortment

This kit contains approximately 200 springs with 20 different types, compression and tension ratings in a clear plastic case. They range from

smallest which is about 10mm long to the longest 70mm long. Spring sizes listed on lid of plastic case.

Part No Description 10 314413CH 200-piece spring assortment... \$6.89

# 3M Adhesive Rubber Feet

These are perfect for project boxes, providing a non-slip, non-scratch surface.

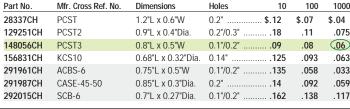
119618CF	126	5981CH		Fig. 1	Fig. 2	Fig. 3		Fig. 4
Part No.	Product No.	Туре	Fig.	Pack	(W" x H")	1	10	50
119618CH	SJ5012BLK4	Black cylindrical	1	4	.50 x .14 .	\$.39	\$.28	\$.26
142658CH	SJ5012BLKC	Black cylindrical	1	100	.50 x .14 .	5.95	5.35	4.79
142771CH	SJ5008BLKC	Black square	2	100	.50 x .12 .	6.69	4.76	3.40
142682CH	SJ5018BLKC	Black square	3	100	.50 x .23 .	9.95	8.25	5.39
126981CH	SJ5023BLK4	Black square	4	4	.81 x .30 .	1.95	1.75	1.59
142666CH	SJ5023BLKC	Black square	4	100	.81 x .30 .	14.25	9.10	8.69



**Quantity SAVE** 

291987C	H: with thread	200
10 piece n	ninimum	129251CH
art No.	Mfr. Cross Ref. No.	Dimensions
8337CH	PCST	1.2"L x 0.6"W
29251CH	PCST2	0.9"L x 0.4"Dia.
48056CH	PCST3	0.8"L x 0.5"W
E/024011	VCC10	0 (011 0 22110):-





**PCB Standoff Mounting Hardware** 

EXCLUSIVE

# JAMECO"

### **Color Instrumentation Knobs**

(1/4" Shaft Diameters)

• JK-907 series: pressure fit type, top set screw; JK-905 series: side set screw All photos on www.Jameco.com CR-MS series for knurled shaft



265017CH

265261CH

Product No.

Part No.



265025CH

265252CH



265076CH

265033CH

265236CH

Size

(H" x Dia.")



265210CH

265084CH

265041CH

265228CH

10 100









265092CH

265113CH

**Black Instrumentation Knobs** 

(1/4" Shaft Diameters)

265121CH

JAMECO

**Value**Pro



264997CH

265009CH

264882CH

264911CH





264954CH

Size

264989CH







264891CH



102787CH

104176CH

Pointer

136240CH

138392CH

264823CH	CPBTAA191A1S6.4BK	Black/Black	White	.79 x .77 <b>\$.99</b>	\$.93	\$.88
264786CH	CPBTAA191A1S6.4RD	Black/Red	White	.79 x .77 <b>.99</b>	.93	.88
264794CH	CPBTAA191A1S6.4YW	Black/Yellow	White	.79 x .77 <b>.99</b>	.93	.88
264807CH	CPBTAA191A1S6.4BL	Black/Blue	White	.79 x .77 <b>.99</b>	.93	.88
264815CH	CPBTAA191A1S6.4GN	Black/Green	White	.79 x .77 <b>.99</b>	.93	.88
264831CH	CPBTAA191A1S6.4GY	Black/Grey	White	.79 x .77 <b>.99</b>	.93	.88
265156CH	JK-907A-BL	Grey/Blue	Blue	.76 x 1.27 <b>1.99</b>	1.87	1.78
265130CH	JK-907A-RD	Grey/Red	Red	.76 x 1.27 <b>1.99</b>	1.87	1.78
265148CH	JK-907A-YW	Grey/Yellow	Yellow	.76 x 1.27 <b>1.99</b>	1.87	1.78
265181CH	JK-907B-BL	Grey/Blue	Blue	.86 x .94 <b>1.99</b>	1.87	1.78
265172CH	JK-907B-YW	Grey/Yellow	Yellow	.86 x .94 <b>1.99</b>	1.87	1.78
265164CH	JK-907B-RD	Grey/Red	Red	.86 x .94 <b>1.99</b>	1.87	1.78
265199CH	JK-907C-RD	Grey/Red	Red	.72 x .68 <b>1.99</b>	1.87	1.69
265201CH	JK-907C-YW	Grey/Yellow	Yellow	.72 x .68 <b>1.99</b>	1.87	1.78
265210CH	JK-907C-BL	Grey/Blue	Blue	.72 x .68 <b>1.99</b>	1.87	1.78
265050CH	JK-905A	Black/Red	White	.58 x .57 <b>.92</b>	.73	.66
265068CH	JK-905B	Black/Yellow	White	.58 x .57 <b>.92</b>	.73	.66
265076CH	JK-905C	Black/Blue	White	.58 x .57 <b>.92</b>	.73	.66
265084CH	JK-905D	Black/Green	White	.58 x .57 <b>.92</b>	.73	.66
265017CH	JK-904A	Black/Red	White	.47 x .78 <b>.99</b>	.93	.88
265025CH	JK-904B	Black/Yellow	White	.47 x .78 <b>.99</b>	.93	.88
265033CH	JK-904C	Black/Blue	White	.47 x .78 <b>.99</b>	.93	.88
265041CH	JK-904D	Black/Green	White	.47 x .78 <b>.99</b>	.93	.88
265261CH	CR-MS-5C5-T18*	Grey	Grey	.68 x .51 <b>78</b>	.67	.61
265252CH	CR-MS-4C5-T18*	Grey	Green	.68 x .51 <b>78</b>	.67	.61
265244CH	CR-MS-3C5-T18*	Grey	Blue	.68 x .51 <b>78</b>	.67	.61

265244CH

**Body Color** 

Pointer

Color

265228CH CR-MS-1C5-T18\* \* For use with 1/4" knurled shaft

CR-MS-2C5-T18\*

265236CH

			Politiei	Size			
Part No.	Product No.	Body Color	Color	(H" x Dia.")	1	10	100
265092CH	JK-906A	Black	White	.72 x 1.39	\$1.09	\$.87	\$.80
265105CH	JK-906B	Black	White	.79 x .95	1.02	.71	.65
265113CH	JK-906C	Black	White	.64 x .82	83	.62	.57
265121CH	JK-906D	Black	White	.58 x .61	68	.53	.50
264997CH	JK-902A	Black	White	.69 x 1.31	74	.57	.53
265009CH	JK-902B	Black	White	.60 x .95	69	.47	.44
264920CH	JK-901A	Black/Alum	White	.79 x 1.77	1.34	1.16	1.05
264946CH	JK-901B	Black/Alum	White	.64 x 1.29	90	.71	.65
264954CH	JK-901C	Black/Alum	White	.61 x 1.06	75	.59	.54
264989CH	JK-901D	Black/Alum	White	.47 x .78	68	.53	.48
264882CH	RN-112A	Black/Alum	Numeric	.90 x 1.46	99	.93	.88
264891CH	RN-113A	Black/Alum	Numeric	.70 x 1.15	99	.93	.88
264911CH	RN-114A	Black/Alum	Numeric	.58 x 1.46	99	.93	.88
102787CH	JK-903C	Black	White	.54 x 1.25	64	.41	.39
104176CH	JK-902C	Black	White	.49 x .75	99	.85	.65
202286CH	CP-Z1-M-S	Black/Alum	White	.60 x .80	79	.69	.64
136240CH	GKB-214	Black/Alum	White	.52 x .54	65	.55	.49
138392CH	41108-1	Black/Alum	White	56 x 85	.79	.59	.54

### JAMECO" **Value**Pro

# **Aluminum Instrumentation Knobs**

(1/8" and 1/4" Shaft Diameters)

Includes: Set screw for secure attachment

290124CH: Coarse surface for sensitive control; 1/8" shaft diameter









138481CH / 138501CH / 138510CH



<b>Hardware and Spacer Assortme</b>	
Includes 2300 pcs. (23 types) Spacers, Nuts,	SAVE \$36
Flat, Tooth & Lock Washers and Slotted PH Scr	rews

Grey

Grey

100 each Spacers	100 each Hex nuts	100 each Flat	100 each Int. tooth	100 each Split lock		each ne screws
_	2-56	_	_	#2	2-56 x	1/4, —
4-40	4-40	#4	#4	#4	4-40 x	1/4, 1/2
6-32	6-32	#6	#6	#6	6-32 x	1/4, 1/2
8-32	8-32	#8	#8	#8	8-32 x	1/2, —
Part No.	Description			Wt. (lbs.)	1	10
108433CH	2300 pcs. H	ardware kit		7.5	\$55.95	\$50.36
130497CH	Refill for 10	8433CH (2300	pcs.)	2.7	39.95	35.95

Yellow

Red

.68 x .51 ...... .78

.67 .61

.67

.61

130497CH

(Refill kit)

	Mfr. Cross	Shaft	Body	Pointer	Size			
Part No.	Ref. No.	Size	Color	Color	(H" x Dia.")	1	10	100
290124CH	42008-1	1/8"	Silver	Silver	.500 x .625	\$1.99	\$1.79	\$1.61
162481CH	K5-1/4S	1/4"	Chrome	Silver	.500 x .560	1.19	1.09	.96
162499CH	K5-1/4B	1/4"	Black	White	.500 x .560	1.55	1.39	1.07
138481CH	KN031	1/4"	Aluminum	Black	.610 x .650	1.49	1.35	1.19
138501CH	KN032	1/4"	Aluminum	Black	.870 x .750	1.95	1.71	1.55
138510CH	KN033	1/4"	Aluminum	Black	1.18 x .870	2.49	2.24	1.95





### Call for additional OEM PRICING - we carry major manufacturers.

- · Low profile
- · Agency approved
- Ball and sleeve bearings
  Power input by lead wires or terminals
  Low power consumption
  Low acoustical noise rating
- PBT black thermo plastic frame and impeller





Lower \$\$\$







**Quantity SAVE** 

1634	475CH	102921CH									213891	СН		249375	СН
Part Number	Manufacturer	Product Number	Voltage (VDC)	Size (W" x H" x D")  See metric below	Air Flow (CFM)	Bearing	Current (mA)	Power (Watts)	Agency Approvals	Noise (dBA)	Connection (Leads)	1	Pric	ing 50	100
163475CH	Nidec	C34427-55APP	5	1.00 x 1.00 x 0.40	0.5	Ball	90	0.45	71pprovuis	22	2"	\$4.95	\$4.46	\$3.56	\$2.67
131246CH	Adda	AD0205LX-G50	5	1.00 x 1.00 x 0.40	1.8	Sleeve	100	0.5	UL/CSA/CE	15.6	5.5"	8.49	7.64	7.01	6.38
206156CH	Sunon	KDE0502PFB3-8	1 5	1.00 x 1.00 x 0.40	1.83	Ball	60	0.3	UL/CSA/TUV/CE	23	5"	11.95	10.76	8.60	6.45
196373CH	Sunon	KD0504PFB2-8	5	1.60 x 1.60 x 0.40	5.5	Ball	90	0.5	UL/CUL	23	12"	8.95	8.09	7.25	6.55
102921CH	Sunon	KD0504PFS2-8	5	1.60 x 1.60 x 0.40	6.3	Sleeve	120	0.6	UL/CUL	24.3	12"	7.95	6.95	6.25	5.59
171678CH	Delta	AFB0405HHD	5	1.60 x 1.60 x 0.80	8.6	Ball	700	2.0		36	2.5"	5.49	4.94	4.45	3.70
207061CH	Adda	AD0505MB-G90	5	2.00 x 2.00 x 0.40	10.5	Ball	120	0.7	UL/CSA/CE	24	11"	7.95	7.16	5.72	4.29
279566CH	Mechatronics	F6025H05B	5	2.36 x 2.36 x 1.00	20	Ball	410	2.05	UL/CUL/TUV	31	6"	8.45	8.05	7.18	6.82
212804CH	Sunon	KDE1202PFB3-8	12	1.00 x 1.00 x 0.40	1.3	Ball	40	0.5	UL/CUL/TUV/CE/VDE	26	5.9"	10.95	9.89	8.89	7.99
102912CH	Sunon	KD1202PFB2-8	12	1.00 x 1.00 x 0.40	2.0	Ball	60	0.7	UL/CSA/TUV	30	6"	11.95	10.74	8.94	7.14
212791CH	Sunon	KDE1202PFB1-8	12	1.00 x 1.00 x 0.40	2.4	Ball	80	1.0	UL/CUL/TUV/CE/VDE	33	5.9"	10.95	9.86	7.88	6.26
212767CH	Sunon	KDE1203PFB3-8	1 12	1.18 x 1.18 x 0.40	2.3	Ball	50	0.6	UL/CUL/TUV/CE/VDE	18.5	5.9"	9.49	8.54	6.83	6.35
212783CH	Sunon	KDE1203PFB1-8	12	1.18 x 1.18 x 0.40	3.5	Ball	75	0.9	UL/CUL/TUV/CE/VDE	27	5.9"	10.95	8.50	7.85	6.95
212733CH	Sunon	KDE1235PFB3-8	12	1.40 x 1.40 x 0.40	3.2	Ball	50	0.6	UL/CUL/TUV/CE/VDE	18	5.9"	11.49	10.34	8.36	6.38
212732CH	Sunon	KDE1235PFB2-8	12	1.40 x 1.40 x 0.40	4.5	Ball	60	0.8	UL/CUL/TUV/CE/VDE	21	5.9"	11.95	9.49	8.49	7.65
212741CH	Sunon	KDE1235PFB1-8	12	1.40 x 1.40 x 0.40	5.2	Ball	80	1.0	UL/CUL/TUV/CE/VDE	25	5.9"	11.95	10.76	9.68	8.06
207052CH	Adda	AD0412MB-K90	12	1.60 x 1.60 x 0.25	5.5	Ball	60	0.72	UL/CSA/TUV/CE	25	5"	6.95	6.26	5.00	3.75
191476CH	Common Wealth	FP-108HX/DC	12	1.60 x 1.60 x 0.40	4.0	Sleeve	60	0.72	UL/CSA/TUV/CE	25	12"	5.95	5.36	4.28	3.21
210796CH	Sunon	KD1204PFB3H	12	1.60 x 1.60 x 0.40	4.0	Ball	50	0.72	UL/CUL/TUV/CE	24	14"	6.95	6.25	5.59	4.95
355418CH	ReliaPro	JR-DCF1241010S1	1 12	1.60 x 1.60 x 0.40	5.2	Sleeve	60	0.72	UL/CUL/TUV/CE	22.6	11.5"	5.65	3.85	3.52	3.35
279611CH	Toyo	T401012VH	1 12	1.60 x 1.60 x 0.40	5.8	Ball	90	1.1	UL/CUL/TUV/CE	33.5	12"	7.49	6.74	5.39	4.04
189691CH	Sunon	KD1204PFS2	12	1.60 x 1.60 x 0.40	6.3	Sleeve	70	0.9	UL/CSA/TUV	24	12"	7.49	7.16	5.72	4.04
				1.60 x 1.60 x 0.40											$\sim$
161699CH	Sunon	KD1204PFB2-8	12	1	6.3	Ball	70	0.6	UL/CSA/TUV	30	12"	7.95	7.16	5.72	4.29
212716CH	Sunon	KDE1204PFB2-H	12	1.60 x 1.60 x 0.40	6.5	Ball	90	1.1	UL/CUL/TUV/CE/VDE	27	12"	6.65	4.95	4.36	3.95
290010CH	Adda	AD0412HB-G70	12	1.60 x 1.60 x 0.40	6.7	Ball	100	1.2	UL/CUL/TUV/CE	25	10" w/ conn.	4.95	4.60	4.14	3.72
311968CH	Adda	AD0412HS-G70	12	1.60 x 1.60 x 0.40	6.7	Sleeve	100	1.2	UL/CUL/TUV/CE	25	2.5"	4.25	2.89	2.69	2.59
213428CH	Adda	AD0412HB-G76	12	1.60 x 1.60 x 0.40	6.7	Ball	100	1.2	CE	30.2	12"/3 leads	7.59	6.83	5.46	4.10
212724CH	Sunon	KDE1204PFB1-H	12	1.60 x 1.60 x 0.40	8.3	Ball	110	1.4	UL/CUL/TUV/CE/VDE	34.4	12"	6.65	5.98	4.79	3.59
174131CH	Jamicon	JF0413S1M	12	1.60 x 1.60 x 0.47	3.8	Sleeve	90	1.1	UL/CSA/TUV	29	14"	2.95	2.66	2.12	1.59
213891CH	Adda	AD0412MB-D50 <b>○</b>	12	1.60 x 1.60 x 0.60	8.1	Ball	100	1.2	UL/CUL/CE	31.8	,	5.99 5.99	5.48	4.98	4.53
136178CH	Adda	AD0412MS-C70	1 12	1.60 x 1.60 x 0.80	5	Sleeve	110	1.32	UL/CSA	23	9"	5.49	4.95	3.95	2.95
195899CH	Sunon	KDE1204PKS2	12	1.60 x 1.60 x 0.80	6.5	Sleeve	70	0.9	UL/CSA/TUV	25.5	12"	7.95	7.15	6.45	5.35
279620CH	Toyo	T402012H	12	1.60 x 1.60 x 0.80	6.7	Ball	70	0.84	UL/CUL/TUV/CE	26.2	12"	7.29	6.56	5.25	3.94
195881CH	Common Wealth	FP-108G/DC(S1)	12	1.60 x 1.60 x 0.80	7.6	Ball	160	1.92	UL/CSA/CE	32	12"	3.45	3.11	2.48	1.86
206447CH	Delta	DFB0412H	12	1.60 x 1.60 x 0.80	8.5	Ball	100	1.0	UL/CSA/VDE	32	8"	7.95	7.16	6.44	5.80
249375CH	Adda <sup>2</sup>	ADO412HB-C56	12	1.60 x 1.60 x 0.80	9.2	Ball	100	1.1	UL/CUL/TUV/CE	39.3	12"	8.95	8.06	6.44	4.83
206164CH	Sunon	KDE1204PKBX-8	12	1.60 x 1.60 x 0.80	10	Ball	90	1.1	UL/TUV/CE	29.4	12"	8.95	7.95	6.95	6.95
212679CH	Sunon	KDE1245PFB3-H	12	1.80 x 1.80 x 0.40	6.1	Ball	60	0.7	UL/CUL/TUV/CE/VDE	23	12"	4.49	4.04	3.23	2.84
212687CH	Sunon	KDE1245PFB2-H	12	1.80 x 1.80 x 0.40	8.0	Ball	90	1.1	UL/CUL/TUV/CE/VDE	29	12"	4.59	4.13	3.30	2.84
212644CH	Sunon	KDE1205PFB3-HG	12	2.00 x 2.00 x 0.40	8.5	Ball	60	0.7	UL/CUL/TUV/CE/VDE	26	12"	6.49	5.84	5.26	4.73
212652CH	Sunon	KDE1205PFB2-HG	12	2.00 x 2.00 x 0.40	10.6	Ball	80	1.0	UL/CUL/TUV/CE/VDE	31.5	12"	6.65	5.98	4.79	3.59
297959CH	Delta	EFB0512HA	12	2.00 x 2.00 x 0.40	11.4	Ball	150	1.8	UL/CSA/CE/VDE	30	6" w/ conn.	6.29	4.99	4.66	4.43
212661CH	Sunon	KDE1205PFB1-HG	12	2.00 x 2.00 x 0.40	12.5	Ball	110	1.4	UL/CUL/TUV/CE/VDE	36	12"	6.65	4.95	4.36	3.95
212628CH	Sunon	KDE1205PHB3-H	12	2.00 x 2.00 x 0.60	10.2	Ball	60	0.7	UL/CUL/TUV/CE/VDE	22.5	12"	8.29	7.46	6.71	5.60
206965CH	Adda	AD0512HB-D71	12	2.00 x 2.00 x 0.60	11.7	Ball	100	1.2		28.5	5"	3.55	3.20	2.56	1.92
139601CH	Adda	AD0512HS-D71		2.00 x 2.00 x 0.60	12	Sleeve	100	1.2	UL/CSA/CE	29	12"	8.95	8.06	6.44	4.83
206172CH	Sunon <sup>3</sup>	KDE1205PHB2-TM	12	2.00 x 2.00 x 0.60	12.7	Ball	140	1.7	UL/CSA/CE	27.8	11"/3 leads	7.95	7.16	6.44	5.80
212636CH	Sunon	KDE1205PHB2-H	12	2.00 x 2.00 x 0.60	13	Ball	80	1.0	UL/CUL/TUV/CE/VDE	29.5	12'	8.29	7.46	5.97	4.48
249092CH	Sunon	KD1206PFB1	12	2.36 x 2.36 x 0.40	16.5	Ball	120	1.4	UL/CSA/CE/TUV	36	11"	7.99	7.17	6.60	6.05
354933CH	Delta	EFB0612MA	12	2.36 x 2.36 x 0.40	15.5	Ball	120	1.4	UL/CSA/VDE/CE	29	12"/3 leads	7.99	7.17	6.60	6.05
195944CH	Adda	AD612MS-D71GL	12	2.36 x 2.36 x 0.60	14.2	Sleeve	110	1.32	UL/CSA/TUV/CE	28.8	6"	6.95	6.26	5.00	3.75
249068CH	Jamicon	JF0615B1H	12	2.36 x 2.36 x 0.60	15.74	Ball	170	2.04	UL/CUL/TUV/CE	34	10.5"	8.75	7.89	7.09	6.39
175046CH	Globe Motors	D24-B08A-04W3-000	12	2.36 x 2.36 x 0.80	10.6	Ball	90	0.8	UL/CSA/TUV/CE	22	13"	6.95	6.26	5.00	3.75
144160CH	Adda	AD0612LB-C70GL	12	2.36 x 2.36 x 0.80	12.6	Ball	80	1.0	UL/CSA/TUV	22.7	6"	8.49	7.69	6.15	4.65
189595CH	Sunon	KD1206PKS2	12	2.36 x 2.36 x 0.80	16.5	Sleeve	150	1.8	UL/CSA/TUV/CE	31	12"	4.95	4.46	3.56	2.61

1 213428CH: ATX PC type

<sup>2</sup> 249375CH: Speed sensor

<sup>3</sup> 206172CH: Locked rotor alarm

**♦** Blue Part No. = Limited Quantity Available

DC Brushless Fans continued on pages 147 and 148

										<b>*</b> S	ize Cor	nversio	n: Inc	hes to	mm										
	Inches	0.25	0.40	0.47	0.60	0.80	0.90	1.00	1.18	1.26	1.40	1.50	1.60	1.80	2.00	2.36	2.98	3.15	3.63	3.72	3.83	4.68	5.00	5.90	6.75
ľ	mm	6	10	12	15	20	23	25	30	32	35	38	40	45	50	60	75	80	92	95	97	120	127	150	170



# Call for additional OEM PRICING - we carry major manufacturers.

- · Low profile
- Ball and sleeve bearings
- · Agency approved
- Low power consumption
- Power input by lead wires or terminals
   Low acoustical noise rating · PBT black thermo plastic frame and impeller









**Quantity SAVE** 

Part		Product	Voltage	Size (W" x H" x D") •	Air Flow		Current	Power	Agency	Noise	Connection		Pric	ina	
Number	Manufacturer	Number	(VDC)	See metric below	(CFM)	Bearing	(mA)	(Watts)	Approvals	(dBA)	(Leads)	1	10	50	100
185818CH	Cheng ©	CHA6012DB	12	2.36 x 2.36 x 0.90	20.5	Ball	180	2.5	UL	33	12"	\$6.95	\$6.26	\$5.63	\$4.74
237075CH	Nidec	TA225DC-B33399-55	12	2.36 x 2.36 x 1.00	12	Ball	110	1.3	UL/CSA	17.2	10"	5.95	5.36	4.82	4.06
	Common Wealth	FP108FDC12VS2	12	2.36 x 2.36 x 1.00	15.5	Sleeve	110	1.3	UL/CSA/TUV/CE	25	12"	5.79	5.21	4.02	3.13
75352CH 136143CH	Delta	SB0612M	12	1	17.7	Sleeve	110	1.8	UL/CSA/VDE	26.5	5"		5.36	4.17	3.21
	Toyo	T602512H	12	2.36 x 2.36 x 1.00 2.36 x 2.36 x 1.00	18.1	Ball	140	1.7	UL/CUL/TUV/CE	34	12"	5.95 5.89	5.30	4.24	3.18
279646CH			12					2.7			11"		6.29		3.79
102947CH	Jamicon	JF0625S1H		2.36 x 2.36 x 1.00	20.5	Sleeve	230		UL/CSA/TUV	30.5		6.95		5.05	
150421CH	Jamicon	JF0625B1H	12	2.36 x 2.36 x 1.00	20.5	Ball	230	2.7	UL/CSA/TUV	30.5	10"	6.95	6.26	5.00	4.29
195910CH	Sunon	KD1206PTS1	12	2.36 x 2.36 x 1.00	21.7	Sleeve	190	2.3	UL/CSA/TUV	34	12"	6.49	5.84	5.26	4.73
109081CH	Adda	AD0812HS-D71	12	3.15 x 3.15 x 0.60	29	Sleeve	190	2.3	UL/CSA/TUV/CE	31.4	12"	9.95	8.99	8.09	7.25
141920CH	Adda 1*	AD0812HB-C70	12	3.15 x 3.15 x 0.80	27.3	Ball	240	2.9	UL/CSA/CE	34	12"	6.35	5.95	5.75	5.55
16993CH	Various 1*	FAN7315SL	12	3.15 x 3.15 x 1.00	25-40*	Sleeve	120-200*	1-2*	UL/CSA*	25*	4-12"*	6.95	6.26	5.00	3.75
75361CH	Various*	FAN6315BL	12	3.15 x 3.15 x 1.00	25-40*	Ball	120-200*	1-2*	UL/CSA*	25*	4-12"*	5.95	5.36	4.28	3.21
234894CH	Adda	AD0812LB-A70GL	12	3.15 x 3.15 x 1.00	27.6	Ball	120	1.44	UL/CSA/TUV/CE	22.5	11.5	8.19	6.39	5.89	5.49
286926CH	Toyo	USTF802512MW	12	3.15 x 3.15 x 1.00	29	Ball	180	2.16	UL/CSA/CE/VDE	24.8	4.5"	6.99	6.29	5.05	3.79
154288CH	Sunon	KDE1208PTS3-6	12	3.15 x 3.15 x 1.00	29.4	Sleeve	120	1.4	UL/CSA/TUV/CE	24.5	5.5"	4.55	4.10	3.28	2.46
195952CH	Panasonic	FMB-08A12M	12	3.15 x 3.15 x 1.00	30	Sleeve	124	1.5	UL/CSA	28	11"	4.55	4.10	3.28	2.46
123529CH	Adda	AD0812MS-A70GL	12	3.15 x 3.15 x 1.00	32	Sleeve	150	1.8	UL/CSA/TUV	28.3	12"	6.95	6.26	5.00	3.75
265578CH	Yate Loon	D80SH-12	12	3.15 x 3.15 x 1.00	33	Ball	190	2.28	UL/CUL/TUV/CE	35.0	5"	7.29	7.18	7.07	6.96
166959CH	NMB (Smart Fan) <sup>T</sup>	3110NL-012Q340-00	12	3.15 x 3.15 x 1.00	35	Ball	290	3.5	UL/CSA	35	2"	8.95	8.06	6.44	4.83
191599CH	NMB	3110KL-04W-B50	12	3.15 x 3.15 x 1.00	39	Ball	230	2.7	CSA	34	10"	7.49	6.74	5.39	4.04
185834CH	Panaflo	FBM08A12H	12	3.15 x 3.15 x 1.00	39.6	Sleeve	220	2.1		32	11"	6.95	6.26	5.00	3.75
206181CH	Sunon	KDE1208PTS1-6	12	3.15 x 3.15 x 1.00	42	Sleeve	220	2.6	UL/CSA/TUV/CE	34	9"	5.95	5.36	4.28	3.21
185826CH	NMB <sup>2</sup>	3110KL-04W-B69	12	3.15 x 3.15 x 1.00	42	Ball	340	3.1	UL/CSA/VDE/CE	35	13"/3 leads	6.95	6.26	5.63	5.07
355400CH	ReliaPro	JR-DCF128025B1	12	3.15 x 3.15 x 1.00	42	Ball	230	2.8	UL/CUL/TUV/CE	28.6	11.5"	7.05	5.10	4.80	4.56
102955CH	Sunon	KD1208PTB1	12	3.15 x 3.15 x 1.00	42.5	Ball	220	2.6	UL/CSA/TUV/CE	33.5	12"	6.49	5.85	5.29	4.75
249148CH	Sunon	KDE1208PTB1-6	12	3.15 x 3.15 x 1.00	42.5	Ball	220	2.6		33.5	12"	6.49	5.85	5.29	4.75
172460CH	Nidec 3	TA300DCM33406-68	12	3.15 x 3.15 x 1.00	43	Ball	290	3.5	UL/CSA	41	11"/3 leads	9.95	8.99	7.19	5.39
189755CH	Cheng	CHA8012DB	12	3.15 x 3.15 x 1.00	44.3	Ball	300	3.6	UL	37	2" w/ conn.	5.49	4.94	3.95	2.96
323897CH	Mechatronics <sup>2</sup>	F8025E12B1	12	3.15 x 3.15 x 1.00	46	Ball	240	2.88	UL/CUL/TUV	32	3"/3 leads	6.99	5.09	4.79	4.45
196015CH	Cheng	CHA9212CB	12	3.63 x 3.63 x 1.00	44.1	Ball	190	2.3	UL/CSA	31	12"	5.25	4.73	3.78	2.84
75441CH	Common Wealth	FP108BDC12VS1	12	3.63 x 3.63 x 1.00	45	Sleeve	320	3.1	UL/CSA/TUV	32	3"/ 3 leads	6.99	5.09	4.79	4.45
154641CH	Nidec	TA350DC-M33422-16	12	3.63 x 3.63 x 1.00	48	Ball	290	3.5	UL/CSA	43	12"	7.55	6.80	5.44	4.08
190983CH	Sunon	KD1209PTB1-6A	12	3.63 x 3.63 x 1.00	51	Ball	220	2.6	UL/CSA/TUV	34	12"	7.25	6.52	5.22	3.92
116476CH	Jamicon 🖸	JF0925S1H	12	3.63 x 3.63 x 1.00	52	Sleeve	350	4.2	UL/CSA/TUV	37	10"	3.99	3.59	2.87	2.15
162739CH	NMB (Smart Fan) <sup>†</sup>	3610KL-04W-B56	12	3.63 x 3.63 x 1.00	55	Ball	430	3.8	UL/CSA/VDE/CE	37	10"/3 leads	7.95	7.16	6.44	5.80
102963CH	Nidec	TA350DC-M33503-55	12	3.63 x 3.63 x 1.00	56	Ball	400	4.8	UL/CSA	45	8"	7.95	6.95	6.25	5.59
279654CH	Toyo	T922512H	12	3.63 x 3.63 x 1.00	56.4	Ball	280	3.4	UL/CUL/TUV/CE	34.3	12"	7.95	7.15	6.65	6.45
284971CH	Delta	EFB09SH	12	3.63 x 3.63 x 1.00	75.6	Ball	500	6.0	UL/CSA/VDE/CE	47	5"	8.99	8.09	6.47	4.85
319193CH	Pabst	3312-177	12	3.63 x 3.63 x 1.26	54.7	Ball	290	3.5	UL/CSA/CE/VDE	43	12"	7.95	7.15	6.55	6.45
213567CH	Nidec 4	A34124-33	12	3.83 x 3.72 x 1.30	25	Ball	650	7.8	UL/CUL	60	11.5"/3 leads	19.95	17.95	14.36	10.77
174140CH	Common Wealth	FP108MS3	12	4.68 x 4.68 x 1.00	54	Sleeve	140	1.7	UL/CSA/TUV/CE	25	12"	6.95	6.26	5.00	3.75
227900CH		FP-108M-S1-B	12	4.68 x 4.68 x 1.00	80	Ball	330	4.0	UL/CSA/VDE/CE	42	12"	10.95	9.85	8.89	7.99
174924CH	Globe Motors	D47-B10A-04T3-000	12	4.68 x 4.68 x 1.00	90	Ball	740	6.8	UL/CSA	39	Terminals	6.95	6.26	5.00	3.75
163619CH	NMB (Smart Fan) <sup>†</sup>	4710NL012P535P0	12	4.68 x 4.68 x 1.00	90	Ball	740	8.9		38.5	12"	4.95	4.46	3.56	2.67
159020CH	Sunon	KDE1212PMS1-6A	12	4.68 x 4.68 x 1.50	107	Sleeve	570	6.8	UL/CSA/TUV	41	12"	11.95	10.76	8.60	6.45
94625CH	Sunon	KD1212PMB1-6A	12	4.68 x 4.68 x 1.50	108	Ball	570	6.8	UL/CSA/TUV/CE	42	12"	11.95	10.76	8.60	6.45
285966CH	Delta	AFB1212VHE	12	4.68 x 4.68 x 1.50	130	Ball	900	10.8	UL/CSA/VDE/CE	48	6"	14.95	13.45	10.75	8.09
206201CH	Sunon	KDE2404PKB3	24	1.60 x 1.60 x 0.80	6	Ball	30	0.7	UL/CSA/TUV/CE	24	12"	7.49	6.79	6.09	5.49
100909CH	Sunon	KD2404PKS2	24	1.60 x 1.60 x 0.80	6.5	Sleeve	50	1.2	UL/CSA/TUV/CE	25.5	12"	7.95	7.16	6.44	5.36
1 16993CH: R	eplacement for the	he PC/XT computer powe 66959CH (40°C); P/N 162°	r supply fan	2 185826CH/3	23897CH: S	peed sensor	3 1	72460CH:	Locked rotor alarm cations may vary		4 213567CH:	: Blower typ	ie		
		, , , , , , , , , , , , , , , , , , ,	. (			Fans contin									

<sup>1 16993</sup>CH: Replacement for the PC/XT computer power supply fan

0.25 0.40 0.47 0.60

12 15

10

0.80

20

0.90

23

1.00

25

1.18

30

\*Size Conversion: Inches to mm 1.26 1.40 1.50 1.60 1.80 2.00 2.36 2.98 3.15 3.63 3.72 3.83 4.68 5.00 5.90 6.75 92 95 97 127 150 170 40 45 80 120

6

Inches

mm

<sup>3 172460</sup>CH: Locked rotor alarm

<sup>&</sup>lt;sup>†</sup> Temperature control: P/N **166959CH** (40°C); P/N **162739CH** (50°C, 3 leads); P/N **163619CH** (35°C)

<sup>4 213567</sup>CH: Blower type

♣ Blue Part No. = Limited Quantity Available







### Call for additional OEM PRICING - we carry major manufacturers.

- Low profile
- Ball and sleeve bearings
   Power input by lead wires or terminals
   Low power consumption
   Low acoustical noise rating
- PBT black thermo plastic frame and impeller











**Quantity SAVE** 



Part		Product	Voltage	Size (W" x H" x D")*	Air Flow		Current	Power	Agency	Noise	Connection		Pric	ing	
Number	Manufacturer	Number	(VDC)	See metric below	(CFM)	Bearing	(mA)	(Watts)	Approvals	(dBA)	(Leads)	1	10	50	100
140661CH	NMB	2408NL-05W-B60	24	2.36 x 2.36 x 0.80	18.4	Ball	100	2.4		31	2"	\$5.95	\$5.36	\$4.28	\$3.21
174107CH	Jamicon	JF0625S2M	24	2.36 x 2.36 x 1.00	18	Sleeve	130	3.1	UL/TUV	28.5	10"	4.99	4.49	4.04	3.64
189860CH	Jamicon	JF0625B2M	24	2.36 x 2.36 x 1.00	18	Ball	130	3.1	UL/CSA/TUV/CE	28.5	10"	8.95	8.06	7.25	6.52
227248CH	Mechatronics	F6025E24B	24	2.36 x 2.36 x 1.00	24	Ball	125	3.0	UL/CUL/TUV	36	12"	7.95	7.15	5.75	4.29
290028CH	Jamicon	JF0825B2M	24	3.15 x 3.15 x 1.00	31.7	Ball	130	3.1	UL/CUL/TUV/CE	29.3	10"	8.25	6.16	5.52	4.99
136160CH	Jamicon	JF0825B2H	24	3.15 x 3.15 x 1.00	39.2	Ball	150	3.6	UL/CSA/TUV	31	12"	9.49	8.55	7.69	6.95
189878CH	Sunon	KD2408PTB1-6A	24	3.15 x 3.15 x 1.00	42.5	Ball	220	2.6	UL/CSA/TUV/CE	36.5	12"	9.95	8.99	8.05	6.75
236099CH	Papst 1	8314/19H	24	3.15 x 3.15 x 1.26	32	Ball	245	6.0	UL/CSA/VDE/CE	36	12"/3 leads	9.95 4.95	4.46	3.56	2.67
189886CH	NMB	3610KL-05W-B30	24	3.63 x 3.63 x 1.00	40.6	Ball	87	2.1	UL/CSA/VDE	34	12"	7.95	7.16	5.72	4.29
174094CH	Jamicon	JF0925S2H	24	3.63 x 3.63 x 1.00	52	Sleeve	190	4.6	UL/CUL	37	10"	6.95	6.26	5.00	3.75
175281CH	Globe Motors	D47B10A05W2000	24	4.68 x 4.68 x 1.00	70	Ball	160	2.9	UL/CSA/TUV/CE	34	12"	12.95	11.66	10.49	9.44
249287CH	Jamicon	JF1225B2H5	24	4.68 x 4.68 x 1.00	82.97	Ball	500	12		41.1	7.5"	12.39	11.15	8.92	6.69
206228CH	Sunon <sup>1</sup>	KDE2412PMS1-6A	24	4.68 x 4.68 x 1.00	107	Sleeve	310	7.4	UL/CSA/TUV/CE	41	11"/3 leads	13.69	12.32	11.09	9.98
100968CH	Sunon	KDE2412PMB3-6A	24	4.68 x 4.68 x 1.50	83	Ball	140	3.4	UL/CSA/TUV/CE	35	12"	12.95	11.69	10.49	9.39
153411CH	Sunon	KD2412PMB2-6A	24	4.68 x 4.68 x 1.50	98	Ball	230	5.5	UL/CSA/TUV	36.5	12"	11.95	10.79	9.69	8.75
320021CH	Papst	W2G115-AE31-01	24	5.00 x 5.00 x 1.50	130	Ball	475	5.7	UL/CSA/VDE	48	10.5"	33.45	31.79	30.09	27.15

<sup>1 236099</sup>CH/206228CH: Locked rotor alarm

213866CH

# AC Tube Axial Fans

Call for additional OEM PRICING - we carry major manufacturers.

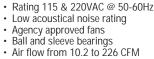


146077CH















75432CH

111894CH

Part		Product	Voltage	Size (W" x H" x D") •	Air Flow		Current	Power	Agency	Noise	Connection		Pric	ing	
Number	Manufacturer	Number	(VAC)	See metric below	(CFM)	Bearing	(mA)	(Watts)	Approvals	(dBA)	(Leads)	1	10	50	100
213866CH	Fulltech	UF60D11BWH	115	2.36 x 2.36 x 1.18	10.2	Ball	35	4	UL/CUL/VDE/CE	28	12" leads	\$15.95	\$14.39	\$12.95	\$11.65
162704CH	Toyo	USTF60301153W	115	2.36 x 2.36 x 1.18	11	Ball	38	4	UL/CSA/CE	29	12" leads	15.49	13.95	12.55	11.29
303491CH	Fulltech	UF060DBTH ❖	115	2.36 x 2.36 x 1.18	10	Ball	38	4	UL/CSA/CE	29	Terminals	15.49	13.95	12.55	11.29
146077CH	Common Wealth	FP108AX-S1-B	115	3.15 x 3.15 x 1.00	23	Ball	140	14	UL/CE	29	12" leads	12.95	11.69	10.49	9.45
300556CH	Fulltech	UF80B11SWH	115	3.15 x 3.15 x 1.00	24	Sleeve	140	14	UL/CUL/TUV/CE	35	12" leads	9.19	8.25	7.98	7.70
300257CH	Fulltech	UF80B11BTH	115	3.15 x 3.15 x 1.00	24	Ball	140	14	UL/CUL/TUV/CE	35	Terminals	10.19	9.18	8.87	8.57
212610CH	Fulltech	UF80B12BTH	115	3.15 x 3.15 x 1.00	24	Ball	140	14	UL/CSA//TUVCE	35	Terminals	9.09	8.37	7.67	6.97
300581CH	Fulltech	UF80A11SWL	115	3.15 x 3.15 x 1.50	25	Sleeve	110	12	UL/CUL/TUV/CE	32	12" leads	9.59	8.64	8.35	8.06
300302CH	Fulltech	UF80A11BWL	115	3.15 x 3.15 x 1.50	25	Ball	110	11	UL/CUL/TUV/CE	32	12" leads	10.55	9.50	9.19	8.87
300329CH	Fulltech	UF80A11BTL	115	3.15 x 3.15 x 1.50	25	Ball	110	12	UL/CUL/TUV/CE	32	Terminals	10.55	9.50	9.19	8.87
300599CH	Fulltech	UF80A11BWH	115	3.15 x 3.15 x 1.50	29	Ball	120	12	UL/CUL/TUV/CE	36	12" leads	11.39	10.26	9.59	9.09
300388CH	Fulltech	UF80A11BTH	115	3.15 x 3.15 x 1.50	30	Ball	120	12	UL/CUL/TUV/CE	36	Terminals	11.39	10.26	9.58	9.10
297932CH	Fulltech	UF80A11SWH	115	3.15 x 3.15 x 1.50	30	Sleeve	120	12	UL/CUL/TUV/CE	36	12" leads	10.19	9.18	8.99	8.57
303386CH	Fulltech	UF80A11STH	115	3.15 x 3.15 x 1.50	30	Sleeve	120	12	UL/CUL/TUV/CE	36	Terminals	10.19	9.18	8.87	8.57
303394CH	Fulltech	UF80A11STL	115	3.15 x 3.15 x 1.50	25	Sleeve	100	11.5	UL/CUL/TUV/CE	32	Terminals	10.19	9.18	8.87	8.57
75459CH	Sunon	SF11592A-1092HBT	115	3.63 x 3.63 x 1.00	37	Ball	110	12	UL/CSA/TUV/CE	40	Terminals	15.95	14.39	12.95	11.65
75432CH	Sunon	SF11592A-1092HSL	115	3.63 x 3.63 x 1.00	36	Sleeve	130	12	UL/CSA/TUV/CE	39	12" leads	12.55	11.29	10.19	9.15
303466CH	Sunon	SF11592A-1092HBL	115	3.63 x 3.63 x 1.00	37	Ball	110	12	UL/CSA/TUV/CE	40	12" leads	15.95	14.39	12.95	11.65
124062CH	Sunon	SP101AT1122HBT	115	4.68 x 4.68 x 1.00	78	Ball	180	18	CSA/TUV/CE	46	Terminals	13.49	10.95	9.89	9.19
303407CH	Sunon	SP100A-1123XBL	115	4.68 x 4.68 x 1.50	117	Ball	240	20	UL/CSA/TUV/CE	47	12" leads	14.95	13.95	12.95	11.95
303415CH	Common Wealth	FP108-1-S1-B/W	115	4.68 x 4.68 x 1.50	105	Ball	200	17	UL/CSA/TUV/CE	47	12" leads	16.95	15.29	13.75	12.39
303482CH	Fulltech	UF12A11SWL	115	4.68 x 4.68 x 1.50	81	Sleeve	150	15	UL/CSA/TUV/CE	15	12" leads	12.85	11.54	10.77	10.23
303440CH	Fulltech	UF12A11BWL1	115	4.68 x 4.68 x 1.50	64	Ball	80	115	UL/CSA/TUV/CE	37	12" leads	14.95	13.49	12.15	10.95
118965CH	Fulltech	UF12A12BTL1	115	4.68 x 4.68 x 1.50	64	Ball	80	15	UL/CSA/TUV/CE	37	Terminals	12.85	11.54	10.76	10.23
303360CH	Fulltech	UF12A11BTL1	115	4.68 x 4.68 x 1.50	64	Ball	80	15	UL/CUL/TUV/CE	37	Terminals	12.85	11.54	10.76	10.23
300791CH	Fulltech	UF12A11STL	115	4.68 x 4.68 x 1.50	81	Sleeve	150	15	UL/CUL/TUV/CE	38	Terminals	10.95	9.84	9.51	9.19
111894CH	Common Wealth	FP108-1-S1/W	115	4.68 x 4.68 x 1.50	105	Sleeve	180	17	UL/CSA/CE	47	12" leads	13.95	12.59	11.35	10.19
106585CH	Common Wealth	FP108-1-S1/T	115	4.68 x 4.68 x 1.50	105	Sleeve	180	12	UL/CSA/CE	47	Terminals	15.95	14.39	12.95	11.65
16934CH	Common Wealth	FP108-1-S1-B	115	4.68 x 4.68 x 1.50	105	Ball	200	17	UL/CSA/TUV/CE	47	Terminals	16.95	15.29	13.75	12.39
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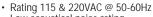
**♦** Blue Part No. = Limited Quantity Available

Size Conversion: Inches to mm

Inches	0.25	0.40	0.47	0.60	0.80	0.90	1.00	1.18	1.26	1.40	1.50	1.60	1.80	2.00	2.36	2.98	3.15	3.63	3.72	3.83	4.68	5.00	5.90	6.75
mm	6	10	12	15	20	23	25	30	32	35	38	40	45	50	60	75	80	92	95	97	120	127	150	170

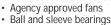






Low acoustical noise rating

Air flow from 10.2 to 226 CFM









**Quantity SAVE** 

Part		Product	Voltage	Size (W" x H" x D") •	Air Flow		Current	Power	Agency	Noise	Connection		Prio	ing	
Number	Manufacturer	Number	(VAC)	See metric below	(CFM)	Bearing	(mA)	(Watts)	Approvals	(dBA)	(Leads)	1	10	50	100
212599CH	Fulltech	UF12A11BWH	115	4.68 x 4.68 x 1.50	106	Ball	190	15	UL/CUL/TUV/CE	46	12" leads	\$12.95	\$11.95	\$10.95	\$9.95
275792CH	Sunon	SP101A-123HBT	115	4.68 x 4.68 x 1.50	107	Ball	180	18	UL/CSA/TUV/CE	50	Terminals	12.85	11.19	9.25	6.95
206308CH	Adda	AA1281UB-AT	115	4.68 x 4.68 x 1.50	107	Ball	230	24	CE	48	Terminals	14.95	13.46	10.76	8.07
102883CH	Sunon	SP100A-1123XBT	115	4.68 x 4.68 x 1.50	117	Ball	240	20	UL/CUL/TUV/CE	50	Terminals	14.95	13.95	12.95	11.95
108724CH	Fulltech	UF15AC11BTH	115	6.75 x 5.90 x 1.50	211	Ball	230	28	UL/CUL/TUV/CE	58	Terminals	27.95	27.10	26.29	25.49
212564CH	Fulltech	UF15PC11BTL ❖	115	6.75 x 5.90 x 2.00	113	Ball	260	30	UL/CUL/TUV/CE	41	Terminals	18.89	17.15	15.59	14.19
212572CH	Fulltech	UF15PC11BWL ❖	115	6.75 x 5.90 x 2.00	113	Ball	260	30	UL/CUL/TUV/CE	41	12" leads	17.95	17.15	15.59	14.19
212581CH	Fulltech	UF15PC11BWH	115	6.75 x 5.90 x 2.00	226	Ball	250	30	UL/CUL/TUV/CE	58	12" leads	24.95	22.46	17.96	17.39
189683CH	Fulltech	UF15PC11BTH	115	6.75 x 5.90 x 2.00	226	Ball	250	30	CSA	58	Terminals	29.95	23.29	21.19	19.25
100917CH	Sunon	SF23080A/2083HSL	220	3.15 x 3.15 x 1.50	30	Sleeve	60	13.5	UL/CSA/TUV/CE	35	12" leads	10.49	8.39	7.55	5.66
209365CH	Bi-Sonic	4C-230LB	220	4.68 x 4.68 x 1.50	63	Ball	60	9	TUV/CE	34	10" leads	12.95	11.66	9.32	8.01
302244CH	Rotron	28023	220	4.68 x 4.68 x 1.50	88	Ball	130	28.6	UL/CSA	50.7	Terminals	18.95	17.05	15.35	13.81
303458CH	Sunon	DP200A-2123XBL	220	4.68 x 4.68 x 1.50	117	Ball	120	21	UL/CSA/TUV/CE	50	12" leads	15.95	14.39	12.95	11.65
102891CH	Sunon	DP200A-2123XBT	220	4.68 x 4.68 x 1.50	117	Ball	120	21	UL/CSA/TUV/CE	50	Terminals	15.95	14.39	12.95	11.65

**☼** Blue Part No. = Limited Quantity Available

### \*Size Conversion: Inches to mm

1	nches	0.25	0.40	0.47	0.60	0.80	0.90	1.00	1.18	1.26	1.40	1.50	1.60	1.80	2.00	2.36	2.98	3.15	3.63	3.72	3.83	4.68	5.00	5.90	6.75
1	mm	6	10	12	15	20	23	25	30	32	35	38	40	45	50	60	75	80	92	95	97	120	1.27	150	170

# Fan Guards, Filters and Power Cords







31923CH/123511CH





138561CH/196816CH



229665CH



**Quantity SAVE** 

138579CH/130104CH

### Compatible with DC and AC Fans - pages 146 - 149

All guards and filters fit all fans by matching the size dimension. Example: P/N 300556CH fan (3.15") matches P/N 31923CH metal guard (3.15").

Part No.	Description •	1	10	100	250
123502CH	1.60" metal (chrome) guard	\$.49	\$.44	\$.35	\$.26
120037CH	2.36" metal (chrome) guard	.79	.71	.64	.54
31923CH	3.15" metal (chrome) guard	.79	.65	.52	.49
123511CH	3.63" metal (chrome) guard	.99	.89	.71	.53
25734CH	4.68" metal (chrome) guard	1.09	.98	.78	.59

	.,	1.00 p.
	138579CH	3.15" al
	130104CH	4.68" al
_		

Part No. Description • 10 100 250 \$1.15 138561CH 3.15" plastic guard with mesh \$1.39 \$1.25 \$.95 1.49 229665CH 3.63" plastic guard with mesh 1.34 1.07 .80 4.68" plastic guard with mesh 1.95 1.55 1.39 1.25 um. washable filter 2.95 2.66 2.12 1.59 lum. washable filter 3.49 2.49

# Fan Power Cords: 24" Straight and Right-Angle



71	• •	5 5	'	5		
Part No.	Description	Length	1	10	100	250
28564CH	Straight socket cord	24"	\$0.89 \$.82	\$.70	\$.56	\$.50
104192CH	90° angle socket cord	24"	.79	.71	.57	.43
	•					



**Quantity SAVE** 





<sup>•</sup> Size conversion chart - above

<sup>•</sup> Size conversion chart - above

# 5 to 25-Watt Open-Frame Switching AC-to-DC Power Supplies

Color Code Legend New Sale Lower\$ QtySave

# **Ultraminiature 5 to 20-Watt Power Supplies**

- Working temp.: -10 to 60°C
- UL/CUL/TUV/CE
- · High reliability, low-cost
- · Free air cooling convection · Universal AC input/full range
- 100% full burn-in test
- · Two year warranty • Fixed switching frequency @ 100kHz
- Short circuit/overload/over-voltage/over-temperature protection



Jameco	Manufacturer	Output		Load	Line	Ripple & Noise		Price	
Part No.	Product No.	Voltage@Current (min-max)	Power	Regulation	Regulation	(mV p-p)	1	10	25
300281CH	OFM-5001	+5V@0-1A	5W	±2%	±0.5%	50	\$30.39	\$28.50	\$27.08
300409CH	OFM-5002	+12V@0-0.42A	5W	±1%	±0.3%	150	30.39	28.50	27.08
300417CH	OFM-5003	+15V@0-0.33A	5W	±1%	±0.3%	150	30.39	28.50	27.08
300425CH	OFM-5005	+24V@0-0.23A	5W	±0.5%	±0.2%	240	30.39	28.50	27.08
300433CH	OFM-0101	+5V@0-2A	10W	±2%	±0.5%	50	36.09	34.20	32.49
300441CH	OFM-0102	+12V@0-0.85A	10W	±1%	±0.3%	180	36.09	34.20	32.49
300450CH	OFM-0103	+15V@0-0.67A	10W	±1%	±0.3%	180	36.09	34.20	32.49
300468CH	OFM-0105	+24V@0-0.42A	10W	±0.5%	±0.2%	240	36.09	34.20	32.49
300476CH	OFM-1501	+5V@0-3A	15W	±2%	±0.5%	60	40.85	38.00	36.10
300484CH	OFM-1502	+12V@0-1.25A	15W	±1%	±0.3%	150	40.85	38.00	36.10
300492CH	OFM-1503	+15V@0-1.0A	15W	±1%	±0.3%	150	40.85	38.00	36.10
300505CH	OFM-1505	+24V@0-0.63A	15W	±0.5%	±0.2%	240	40.85	38.00	36.10
300513CH	OFM-0201	+5V@0-4.4A	20W	±2%	±0.5%	50	43.69	40.85	38.81
300521CH	OFM-0202	+12V@0-1.8A	20W	±1%	±0.3%	150	43.69	40.85	38.81
300530CH	OFM-0203	+15V@0-1.4A	20W	±1%	±0.3%	150	43.69	40.85	38.81
300548CH	OFM-0205	+24V@0-0.92A	20W	±0.5%	±0.2%	240	43.69	40.85	38.81
									-

	Power Supplies Index
	Open-Frame Switching
	5-25 Watt
	30-110 Watt (Medical) 151
	25-45 Watt152
	45-65 Watt153
	65-110 Watt154
ı	110-350 Watt155
	Enclosed Switching
	25-40 Watt156
	50-65 Watt157
	75-85 Watt158
	100-120 Watt159
	125-150 Watt160
	200-320 Watt161
	320-500 Watt162
1	500-1500 Watt 163
	DIN-Rail Switching164
	Linear AC to DC164
	DC-DC Converters
	6-30A Non-Isolated 165
	0.5-5W Isolated165
	10-20W Isolated166
	20-30W Isolated167
	60-150W Isolated168
	Table Top Power Supplies
	Regulated Switching168-170
	Regulated Linear 171
	Unregulated171
	Regulated Switching (Medical) 172
	Wall Adapters
	Regulated Switching 172-173
	Regulated Linear174
	Unregulated 174-177
ı	1010

AC-AC ...... 177-178



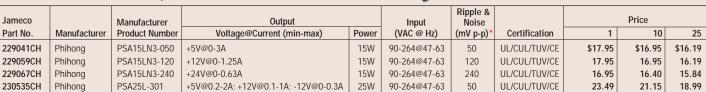
# 15 & 25-Watt Open Frame

**Enclosed Power Supplies** on pages 156-163

PSA15 & PSA25 Series: Single & Triple Outputs

- · Load regulation: ±2.0%
- Line regulation: ±1.0%
- Universal input

- · Isolation voltage: 3,000 VAC
- · Voltage adjustment: 5% (PSA15 only)
- Inrush current: 30A @ 120VAC Temperature: 0° to +40°C
  - One-year warranty
- Size: 4.33"L x 1.57"W x 0.91"H, except 230535CH 3.6"L x 2.5"W x 1.1"H



Primary Output

### For Complete Specifications visit www.Jameco.com.

	Special Offers at Great Savings – 90-Day Warranty													
Jameco		Manufacturer	Output		Input	Size Inches	Mounting Holes Inches	Ripple & Noise	Load Reg.	Line Reg.			Price	
Part No.	Mfr.	Product No.	Voltage@Current (min-max)	Power	(VAC @ Hz)	(LxWxH)	(LxWxDia.)	(mV p-p)*	(±%)*	(±%)*	Certification	1	10	25
189747CH	Tamura	79642191	+5V@1A; +12V@1A	17W	120/230@50-60	4.7x2.4x1.1	_	50	_	1.0	_	\$8.95	\$8.06	\$7.25
166967CH	Super Mac	U002512010	+5V@2.5A; +12V@1A	24.5W	100-240@50-60	3.7x2.5x1.2	_	50	_	1.0	UL/CSA/TUV	14.29	12.86	11.57

Primary Output



c**¶**us ( € ≜

# 30 to 110-Watt Medical Switching AC-to-DC Power Supplies

# 30-Watt Open Frame, Low Leakage

### MPS-30 Series: Single Output

- · 100% full load burn-in test
- · 105°C output capacitor
- Universal AC input
- High-efficiency, low heat generation
   -10°C to + 50°C working temperature (see <a href="https://www.Jameco.com">www.Jameco.com</a>)
- Load regulation: ±1.0%, except 220978CH: ±2.0%
- Line regulation: ±0.5%, except 220978CH & 220986CH: ±1.0%
- Inrush current: 35A@120VAC Leakage current: 0.3mA@240V
- Mating connectors: P/Ns 104723CH & 104432CH, pg 106

• Size: 4.0"L x 2.59"W x 0.98"H

The Mean Well MPS-30 medical power supplies are low cost, high reliability open frame power supplies that feature a low leakage current of 0.3mA@240VAC. Other features of this open frame power supply are: universal input of 88-264VAC as well as 120-370VDC for battery-supported applications. Protections include short-circuit, overload, and over-voltage. They

are UL and TUV approved, and carry a CE mark for use worldwide.

Universal AC input

• 2.1 watts/in<sup>3</sup> maximum

· Voltage adjustment: 3%

• Line regulation: ±0.1%

· Weight: 1.3 lbs.

# 110-Watt Open Frame, Low Leakage ARTES

### NFS110-79xxP Series: Quad Outputs

- · 100% full-load burn-in
- · 110W with 20 CFM of air
- Leakage current: 0.1mA@240V
- Size: 7.0"L x 4.25"W x 1.8"H
- In-rush current: 17A@120VAC
- Two-year warranty
- Mounting holes: 6.6"L x 3.75"W x 0.156"Dia.

• 0°C to +70°C working temp. (see www.Jameco.com)

The NFS110-79xxP models have proven to be highly reliable and versatile for a wide range of communication and industrial applications, with a very high peak current capability on each output for drive and motor applications. These models have full medical safety approval to EN60601 and UL2601, and meet conducted emissions requirements of EN55022 level A. They are designed for use in low power medical, dental and laboratory applications.

For Complete Specifications visit www.Jameco.com.



- · Weight: 0.3 lbs.

Isolation voltage: 4000VAC • 2.9 watts/in³ maximum

> · Voltage adjustment: 10% -10°C to + 60°C working temperature (see www.Jameco.com) Leakage current: 0.3mA@240V Inrush current: 20A@120VAC

45 & 65-Watt Open

100% full load burn-in test

105°C output capacitor

 Universal AC input High-efficiency,

voltage: 4000VAC

2.9 watts/in³ max.

low heat

Isolation

generation

Frame, Low Leakage

MPS-45 & MPS-65 Series: Single Output

Line regulation: ±1.0% Load regulation: ±2.0%, except 221031CH, 221049CH, 221057CH, 221129CH, 221137CH, 221145CH: ±3.0%

Soft-start circuit, limiting AC surge current

- · Three-year warranty Weight: 0.6 lbs. Size: MPS-45: 5.0"L x 3.0"W x 1.06"H;
- MPS-65: 5.0"L x 3.0"W x 1.65"H Mounting holes: 4.55"L x 2.55"W x 0.14"Dia.
- · Mating connectors: P/Ns 104432CH and 104731CH, pg 106

The MeanWell MPS-45 & MPS-65 medical power supplies are low cost, high reliability open frame power supplies. Other features of these power supplies are: universal input of 88-264VAC, as well as 120-370VDC for batteryapplications. Full rated power is available with 18CFM forced air convection applied. Protections include short-circuit, overload, and over-voltage.



Ouantity SAVE Lower \$\$\$

				— JALE /		Qualitity 5A			
	Manufacturer	Output		Input	Ripple & Noise			Price	
Manufacturer	Product Number	Voltage@Current (min-max)	Power	(VAC @ Hz)	(mV p-p)*	Certification	1	10	25
Mean Well	MPS-30-5	+5V@0-5A	25.0W	88-264@47-63	80	UL/CUL/TUV/CE	\$33.95	\$28.86	\$21.64
Mean Well	MPS-30-12	+12V@0-2.5A	30.0W	88-264@47-63	120	UL/CUL/TUV/CE	33.95	30.56	27.50
Mean Well	MPS-30-15	+15V@0-2A	30.0W	88-264@47-63	150	UL/CUL/TUV/CE	\$33.95 25.29	22.97	20.89
Mean Well	MPS-30-24	+24V@0-1.2A	28.8W	88-264@47-63	240	UL/CUL/TUV/CE	33.95	30.56	27.50
Mean Well	MPS-30-27	+27V@0-1.1A	29.7W	88-264@47-63	240	UL/CUL/TUV/CE	\$33.95 25.99	23.62	21.47
Mean Well	MPS-30-48	+48V@0-0.6A	28.8W	88-264@47-63	240	UL/CUL/TUV/CE	\$33.95 26.15	23.74	21.59
Mean Well <b>⊙</b>	MPS-45-3.3	+3.3V@0-8A	26.4W	90-264@47-440	80	UL/CUL/TUV/CE	\$3 <sup>4.95</sup> 26.15	23.77	21.61
Mean Well <b>⊙</b>	MPS-45-5	+5V@0-8A	40.0W	90-264@47-440	100	UL/CUL/TUV/CE	34.95	29.71	22.28
Mean Well	MPS-45-7.5	+7.5V@0-5.4A	40.5W	90-264@47-440	100	UL/CUL/TUV/CE	34.95	29.71	22.28
Mean Well	MPS-45-12	+12V@0-3.7A	44.4W	90-264@47-440	100	UL/CUL/TUV/CE	34.95	29.71	22.28
Mean Well	MPS-45-13.5	+13.5V@0-3.3A Other Version	44.6W	90-264@47-440	100	UL/CUL/TUV/CE	\$34.95 26.15	23.77	21.61
Mean Well	MPS-45-15		45.0W	90-264@47-440	100	UL/CUL/TUV/CE	34.95	29.71	22.28
Mean Well	MPS-45-24	+24V@0-1.9A 800-831-4242	45.6W	90-264@47-440	100	UL/CUL/TUV/CE	34.95	29.71	22.28
Mean Well	MPS-45-27	+27V@0-1.7A	45.9W	90-264@47-440	100	UL/CUL/TUV/CE	\$34.95 <b>25.85</b>	23.47	21.33
Mean Well	MPS-45-48	+48V@0-1A	48.0W	90-264@47-440	100	UL/CUL/TUV/CE	34.95	31.46	28.31
Mean Well	MPS-65-3.3	+3.3V@0-12A	39.6W	90-264@47-440	80	UL/CUL/TUV/CE	\$35.95 27.15	24.64	22.40
Mean Well <b>⊙</b>	MPS-65-5	+5V@0-12A	60.0W	90-264@47-440	100	UL/CUL/TUV/CE	35.95	30.56	22.92
Mean Well	MPS-65-7.5	+7.5V@0-8A	60.0W	90-264@47-440	100	UL/CUL/TUV/CE	35.95	32.36	29.12
Mean Well	MPS-65-12	+12V@0-5.2A	62.4W	90-264@47-440	100	UL/CUL/TUV/CE	35.95	32.36	29.12
Mean Well	MPS-65-13.5	+13.5V@0-4.7A	63.5W	90-264@47-440	100	UL/CUL/TUV/CE		28.86	21.64
Mean Well	MPS-65-15	+15V@0-4.2A	63.0W	90-264@47-440	100	UL/CUL/TUV/CE	\$35.95 26.45	24.02	21.83
Mean Well	MPS-65-24	+24V@0-2.7A	64.8W	90-264@47-440	100	UL/CUL/TUV/CE	35.95	30.56	22.92
Mean Well	MPS-65-27	+27V@0-2.4A	64.8W	90-264@47-440	100	UL/CUL/TUV/CE	\$35.95 26.25	23.82	21.65
Mean Well	MPS-65-48	+48V@0-1.35A	64.8W	90-264@47-440	100	UL/CUL/TUV/CE	35.95	32.36	29.12
Artesyn	NFS110-7901P	+5.1V@0-8; +12V@0-4.5A;	110W	90-253@47-440	50	UL/CSA/VDE/CE	\$40 <sup>4.49</sup> 88.89	84.49	80.25
		-5V@0-0.5A; -12V@0-0.5A							
Artesyn	NFS110-7902P	+5.1V@0-8A; +12V@0-4.5A; +24V@0-3.5A: -12V@0-0.5A	110W	90-253@47-440	50	UL/CSA/VDE/CE	\$98.79 88.89	84.49	80.25
	Mean Well	Manufacturer Product Number  Mean Well MPS-30-5 Mean Well MPS-30-12 Mean Well MPS-30-15 Mean Well MPS-30-24 Mean Well MPS-30-27 Mean Well MPS-30-27 Mean Well MPS-30-48 Mean Well MPS-45-3.3 Mean Well MPS-45-5 Mean Well MPS-45-12 Mean Well MPS-45-12 Mean Well MPS-45-15 Mean Well MPS-45-15 Mean Well MPS-45-24 Mean Well MPS-45-27 Mean Well MPS-65-3.3 Mean Well MPS-65-3.3 Mean Well MPS-65-12 Mean Well MPS-65-12 Mean Well MPS-65-15 Mean Well MPS-65-27 Mean Well MPS-65-27 Mean Well MPS-65-48 Artesyn NFS110-7901P	Manufacturer         Product Number         Voltage@Current (min-max)           Mean Well         MPS-30-5         +5V@0-5A           Mean Well         MPS-30-12         +12V@0-2.5A           Mean Well         MPS-30-15         +15V@0-2A           Mean Well         MPS-30-24         +24V@0-1.2A           Mean Well         MPS-30-27         +27V@0-1.1A           Mean Well         MPS-30-48         +48V@0-0.6A           Mean Well         MPS-45-3.3         +3.3V@0-8A           Mean Well         MPS-45-5         +5V@0-8A           Mean Well         MPS-45-15         +15V@0-3.7A           Mean Well         MPS-45-15         +13.5V@0-3.7A           Mean Well         MPS-45-15         +13.5V@0-3.3A           Mean Well         MPS-45-24         +24V@0-1.9A           Mean Well         MPS-45-24         +24V@0-1.9A           Mean Well         MPS-45-3.3         +3.3V@0-12A           Mean Well         MPS-45-48         +48V@0-1.A           Mean Well         MPS-65-3.3         +3.3V@0-12A           Mean Well         MPS-65-15         +15V@0-8A           Mean Well         MPS-65-12         +12V@0-5.2A           Mean Well         MPS-65-15         +15V@0-4.2A	Manufacturer         Product Number         Voltage@Current (min-max)         Power           Mean Well         MPS-30-5         +5V@0-5A         25.0W           Mean Well         MPS-30-12         +12V@0-2.5A         30.0W           Mean Well         MPS-30-15         +15V@0-2A         30.0W           Mean Well         MPS-30-24         +24V@0-1.2A         28.8W           Mean Well         MPS-30-27         +27V@0-1.1A         29.7W           Mean Well         MPS-30-48         +48V@0-0.6A         28.8W           Mean Well         MPS-45-3.3         +3.3V@0-8A         26.4W           Mean Well         MPS-45-5         +5V@0-8A         40.0W           Mean Well         MPS-45-13         +7.5V@0-5.4A         40.5W           Mean Well         MPS-45-13         +13.5V@0-3.7A         44.6W           Mean Well         MPS-45-13         +15V@0-3A         44.6W           Mean Well         MPS-45-13         +15V@0-3A         800-831-4242         45.6W           Mean Well         MPS-45-24         +24V@0-1.9A         800-831-4242         45.6W           Mean Well         MPS-65-3.3         +3.3V@0-12A         40.0W         800-831-4242         45.6W           Mean Well	Manufacturer         Manufacturer         Voltage@Current (min-max)         Power         V/AC @ Hz)           Mean Well         MPS-30-5         +5V@0-5A         25.0W         88-264@47-63           Mean Well         MPS-30-12         +12V@0-2.5A         30.0W         88-264@47-63           Mean Well         MPS-30-15         +15V@0-2A         30.0W         88-264@47-63           Mean Well         MPS-30-24         +24V@0-1.2A         28.8W         88-264@47-63           Mean Well         MPS-30-27         +27V@0-1.1A         29.7W         88-264@47-63           Mean Well         MPS-30-48         +48V@0-0.6A         28.8W         88-264@47-63           Mean Well         MPS-45-3.3         +3.3V@0-8A         40.0W         90-264@47-440           Mean Well         MPS-45-5         +5V@0-8A         40.0W         90-264@47-440           Mean Well         MPS-45-15         +15V@0-3.7A         44.4W         90-264@47-440           Mean Well         MPS-45-12         +12V@0-3.7A         44.6W         90-264@47-440           Mean Well         MPS-45-15         +15V@0-3A         Available: Call         45.0W         90-264@47-440           Mean Well         MPS-45-27         +27V@0-1.7A         45.6W         90-264@47-440	Manufacturer         Manufacturer Product Number         Output         Power         Kipple & Noise (mV p-p)* (VAC @ Hz)         Roise (mV p-p)* (wAC @ Hz)         Ripple & Noise (mV p-p)* (wAC @ Hz)         Roise (mV p-p)* (wAC @ Hz)         Ripple & Noise (mV p-p)* (wAC @ Hz)         Roise (mV p-p)* (wAC @ Hz)         Ripple & Noise (mV p-p)* (wAC @ Hz)         Roise (mV p-p)* (wAC @ Hz)         Ripple & Noise (mV p-p)* (wAC @ Hz)         Roise (mV p-p)* (wAC @ Hz)         Ripple & Noise (mV p-p)* (wAC @ Hz)         Roise (mV p-p)* (mV p-p)* (wAC @ Hz)         Roise (mV p-p)* (mV	Manufacturer Product Number         Output         Input (VAC @ Hz)         Ripple (MV p-p)* Certification         Certification           Mean Well Men Well MPS-30-15         +5V@0-5A         25.0W         88-264@47-63         80         UL/CUL/TUV/CE           Mean Well MPS-30-12         +12V@0-2.5A         30.0W         88-264@47-63         120         UL/CUL/TUV/CE           Mean Well Men Well MPS-30-24         +12V@0-2.A         28.8W         88-264@47-63         150         UL/CUL/TUV/CE           Mean Well MPS-30-27         +27V@0-1.1A         29.7W         88-264@47-63         240         UL/CUL/TUV/CE           Mean Well MPS-30-48         +48V@0-0.6A         28.8W         88-264@47-63         240         UL/CUL/TUV/CE           Mean Well Men Well MPS-45-5         +5V@0-8A         26.4W         90-264@47-440         80         UL/CUL/TUV/CE           Mean Well MPS-45-12         +12V@0-3.7A         40.0W         90-264@47-440         100         UL/CUL/TUV/CE           Mean Well MPS-45-12         +12V@0-3.7A         44.6W         90-264@47-440         100         UL/CUL/TUV/CE           Mean Well MPS-45-15         +15V@0-3A         Available: Call         45.6W         90-264@47-440         100         UL/CUL/TUV/CE           Mean Well MPS-65-15         +15V@0-17A	Manufacturer         Manufacturer         Voltage@Current (min-max)         Power         (VAC @ Hz)         Ripple & Noise         Certification         1           Mean Well         MPS-30-5         +5V@0-5A         25.0W         88-264@47-63         80         UJCUL/TUV/CE         \$33.95           Mean Well         MPS-30-15         +15V@0-2A         30.0W         88-264@47-63         120         UJCUL/TUV/CE         \$33.95           Mean Well         MPS-30-15         +15V@0-2A         30.0W         88-264@47-63         150         UJCUL/TUV/CE         \$33.95           Mean Well         MPS-30-24         +24V@0-1.2A         28.8W         88-264@47-63         240         UJCUL/TUV/CE         \$33.95           Mean Well         MPS-30-27         +27V@0-1.1A         29.7W         88-264@47-63         240         UJCUL/TUV/CE         \$33.95         26.15           Mean Well Men Well MPS-45-3.3         +3.3V@0-8A         26.4W         90-264@47-440         100         UJCUL/TUV/CE         \$34.95         26.19           Mean Well MPS-45-5.5         +5V@0-8A         40.0W         90-264@47-440         100         UJCUL/TUV/CE         \$34.95           Mean Well MPS-45-12         +12V@0-3.3A         44.4W         90-264@47-440         100         UJCU	Manufacturer         Manufacturer         Voltage@Current (min-max)         Power         (VAC @ Hz)         (mV p-p)*         Certification         1         10           Mean Well         MPS-30-5         +5V@0-5A         25.0W         88-264@47-63         80         UL/CUL/TUV/CE         \$33.95         \$33.95         \$33.95         \$33.95         \$30.56           Mean Well         MPS-30-15         +15V@0-2A         30.0W         88-264@47-63         150         UL/CUL/TUV/CE         \$33.95         30.56           Mean Well         MPS-30-24         +24V@0-1.2A         28.8W         88-264@47-63         240         UL/CUL/TUV/CE         \$33.95         30.56           Mean Well         MPS-30-24         +24V@0-1.2A         28.8W         88-264@47-63         240         UL/CUL/TUV/CE         \$3.95         25.59         223.6C           Mean Well         MPS-30-28         +48V@0-0.6A         28.8W         88-264@47-63         240         UL/CUL/TUV/CE         \$38.95         25.59         23.6C           Mean Well MPS-45-3.3         +33.9W@0-8A         26.4W         90-264@47-440         80         UL/CUL/TUV/CE         \$34.95         29.71           Mean Well MPS-45-15         +15V@0-3.7A         44.4W         90-264@47-440         100

Primary Output

**☼** Blue Part No. = Limited Quantity Available

# 25 to 45-Watt Open-Frame Switching AC-to-DC Power Supplies



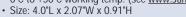
# 25-Watt Open Frame

NLP-25 Series: Single & Triple Outputs

- · 100% full-load burn-in
- · Universal AC input
- 3.3 watts/in3 maximum • Load regulation: ±2.0%
- Line regulation: ±2.0% Two-year warranty

ARTESYN

- 0°C to +50°C working temp. (see <u>www.Jameco.com</u>)





# 25-Watt Open Frame

### PS-25 & PD-25 Series: Single & Dual Outputs

- 100% full-load burn-in
- · Universal AC input
- 105°C output capacitor
- Inrush current: 40A @ 120VAC Two-year warranty
- Size: 4.20"L x 2.40"W x 1.10"H • -10°C to +60°C working temp (see www..Jameco.com

-1000	) 100 C W	orking to	iiib (3cc <u>v</u>	vvvv.Jami	,co.com)		
Part	Load Reg.			Load Reg.			Load R
Number	(±%)*	(±%)*	Number	(±%)*	(±%)*	Number	(±%)

Part	Load Reg.	Line Reg.	Part	Load Reg.	Line Reg.	Part	Load Reg.	Line Reg.
Number	(±%)*	(±%)*	Number	(±%)*	(±%)*	Number	(±%)*	(±%)*
212361CH	2.5	0.5	216768CH	1.0	0.3	212337CH	1.0	0.5
212353CH	2.0	0.5	212345CH	0.5	0.2	212329CH	1.0	0.5
148603CH	1.0	0.3	212311CH	4.0	1.0	148689CH	3.0	0.5



Call for LOWER PRICES on Larger

Quantities



# 40-Watt Open Frame

NFS-40 Series: Single & Triple Outputs

- 100% full-load burn-in
- · Universal AC input
- 50 watts with 20 CFM of air
- No minimum
- load required Load regulation: ±2.0%
- Line regulation: ±0.2%
- Inrush current: 12A@120VAC
- 0° to +70°C working temperature (see www.Jameco.com)
- Voltage adjustment: 5%
- Mating connectors: P/Ns 104432CH
- & 104731CH, pg 106 Size: 5.0"L x 3.0"W x 1.2"H
- Two-year warranty



# 

# 45-Watt Open Frame

### PSA45 Series: Single, Triple & Quad Outputs

- Load regulation: ±2.0%
- Inrush current: 20A @ 120VAC
- Size: 5.0"L x 3.0"W x 1.2"H
- Line regulation: ±2.0%
- Temperature: 0° to +50°C · Weight: 0.9 lbs.
- Universal input
- One-year warranty









**CALE** Ouantity SAVE Lower \$\$\$

# **Enclosed Power Supplies**

# For Complete Specifications visit www.Jameco.com.

on pag	ges 156-163.						JALE	Zualitity SAVE	LOWE	جدد ا
Jameco		Manufacturer	Output		Input	Ripple & Noise			Price	
Part No.	Manufacturer	Product Number	Voltage@Current (min-max)	Power	(VAC @ Hz)	(mV p-p)*	Certification	1	10	25
218481CH	Artesyn	NLP25-7612	+12V@0-2.08A	25.0W	90-264@47-440	120	UL/CSA/VDE/CE	\$36.19	\$30.76	\$27.68
218499CH	Artesyn	NLP25-7624	+24V@0-1.04A	25.0W	90-264@47-440	150	UL/CSA/VDE/CE	36.19	30.76	27.68
218501CH	Artesyn	NLP25-7608	+5V@0.2-2A; +12V@0.1-0.8A; -12V@0-0.1A	20.8W	90-264@47-440	50	UL/CSA/VDE/CE	31.29	28.45	25.87
212361CH	Mean Well	PS-25-3.3	+3.3V@0-5A	16.5W	85-264@47-63	80	UL/CUL/TUV/CE	17.95	16.95	16.19
212353CH	Mean Well	PS-25-5	+5V@0-5A  Other Versions	25.0W	85-264@47-63	80	UL/CUL/TUV/CE	17.95	16.95	16.19
148603CH	Mean Well	PS-25-12	+12V@U-2.1A	25.2W	85-264@47-63	100	UL/CUL/TUV/CE	18.95	17.95	17.19
216768CH	Mean Well	PS-25-15	+15V@0-1.7A Available: 800-831-4242	25.5W	85-264@47-63	100	UL/CUL/TUV/CE	16.95	16.10	15.30
212345CH	Mean Well	PS-25-24	+24V@0-1A	24.0W	85-264@47-63	240	UL/CUL/TUV/CE	18.95	17.95	17.19
212311CH	Mean Well	PD-2505	+5V@0.1-3A; -5V@0.1-2.5A	25.0W	85-264@47-63	50	UL/CUL/TUV/CE	19.95	16.96	12.72
212337CH	Mean Well	PD-25A	+5V@0.2-2.5A; +12V@0.1-1.5A	25.0W	85-264@47-63	50	UL/CUL/TUV/CE	18.95	17.95	17.15
212329CH	Mean Well	PD-25B	+5V@0.2-2A; +24V@0.1-1A	25.2W	85-264@47-63	50	UL/CUL/TUV/CE	19.95	18.95	17.95
148689CH	Mean Well	PD-2512	+12V@0.1-1.2A; -12V@0.1-1A	24.0W	85-264@47-63	50	UL/CUL/TUV/CE	19.95	18.95	17.95
218510CH	Artesyn	NFS40-7605	+5.1V@0-6A	30.6W	85-264@47-440	100	UL/CSA/VDE/CE	\$40. <sup>15</sup> 37.49	34.06	30.96
218528CH	Artesyn	NFS40-7612	+12V@0-3.3A	39.6W	85-264@47-440	120	UL/CSA/VDE/CE	\$40.15 37.49	34.06	30.96
218536CH	Artesyn	NFS40-7624	+24V@0-1.6A	38.4W	85-264@47-440	240	UL/CSA/VDE/CE	\$40. <sup>15</sup> 37.49	34.06	30.96
190086CH	Artesyn	NFS40-7608	+5V@0-3A; +12V@0-2A; -12V@0-0.35A	43.2W	85-264@47-440	50	UL/CSA/VDE/CE	46.39	41.75	37.55
218552CH	Artesyn	NFS40-7610	+5V@0-3A; +15V@0-2A; -15V@0-0.35A	50.2W	85-264@47-440	50	UL/CSA/VDE/CE	46.39	41.75	37.55
229075CH	Phihong	PSA45-050	+5V@0-8A	40.0W	90-264@47-63	50	UL/CSA/TUV/CE	27.95	25.49	23.04
229091CH	Phihong	PSA45-120	+12V@0-4A	48.0W	90-264@47-63	120	UL/CSA/TUV/CE	27.95	23.76	22.73
229112CH	Phihong	PSA45-240	+24V@0-2A	48.0W	90-264@47-63	240	UL/CSA/TUV/CE	27.95	25.49	23.04
229121CH	Phihong	PSA4531	+5V@0-4A; +12V@0-1.5A; -12V@0-0.5A	44.0W	90-264@47-63	50	UL/CSA/TUV/CE	31.95	28.79	25.89
229139CH	Phihong	PSA4534	+5V@0-4A; +15V@0-1.2A; -15V@0-0.5A	45.5W	90-264@47-63	50	UL/CSA/TUV/CE	29.95	27.38	24.80
229147CH	Phihong	PSA4541	+5V@0-3A; +12V@0-2A; -5V@0-0.5A; -12V@0-0.5A	47.5W	90-264@47-63	50	UL/CSA/TUV/CE	29.95	27.38	24.80

Primary Output

	Special Offers at Great Savings – 90-Day Warranty													
Jameco		Manufacturer	Output		Input	Size Inches	Mounting Holes Inches	Ripple & Noise	Load Reg.	l			Price	
Part No.	Mfr.	Product No.	Voltage@Current (min-max)	Power	(VAC @ Hz)	(LxWxH)	(LxWxDia.)	(mV p-p)*	(±%)*	(±%)*	Certification	1	10	25
210841CH	Power-One	MAP42-1005	+5V@0-8A	40.0W	120-240@50-60	5.0x3.0x1.3	4.6x2.6x0.16	50	1.0	0.2	UL/CSA/TUV/CE	\$19.95	\$16.96	\$12.72
168225CH	Converter Concepts	STRC0006	+5V@2.7A; +12V@1.2A; +35V@.35A; -5V@.18A	30.0W	85-135@57-63	9.0x2.0x1.6	_	_	_	_	UL	5.95	5.35	4.79

Primary Output

We're Listening to What You Need

Our goal is to provide you with more of what you want. Let us know how we can better serve your electronics needs. Please send requests to info@Jameco.com.



# 45 to 65-Watt Open-Frame Switching AC-to-DC Power Supplies

# 45-Watt Open Frame

### PS-45, PD-45 & PT-45 Series: Single, Dual & Triple Outputs

- 100% full-load burn-in
- · 105°C output capacitor
- Line regulation: ±1.0%
- Size: 5.0"L x 3.0"W x 1.06"H
- · Universal AC input Two-year warranty Voltage adjustment: 10% Inrush current: 20A@120VAC

Enclosed Power Supplies on pages 156-163

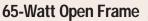
- Load regulation: ±3.0% (except 213727CH/213719CH/213701CH: ±2.0%)
- -10°C to +60°C working temperature (see www.Jameco.com)

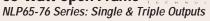




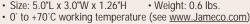
- 100% full burn-in · Universal AC input
- · Short circuit, overload, over-voltage protection
- · LED power indicator
- Inrush current: 25A@115VAC
- · Built-in remote ON-OFF
- · Voltage adjustment: 10%
- Line regulation: ±1.0% · Weight: 0.5 lbs.
- Power density: 3.32 watts/in3
  - Input voltage: 90-264VAC@47-63Hz, 127-370VDC
  - Load regulation: ±2.0% (LPS-50-12); ±1.0% (LPS-50-24)
  - Working temperature: -20 to +70C
  - Size: 7.7"L x 2.2"W x 0.9"H
     Two-year warranty







- · 100% full-load burn-in · Universal AC input
- 75 watts with 20 CFM of air
- · Load regulation: ±2.0%
- Line regulation: ±2.0%
- Inrush current: 17A@120VAC
- · Two-year warranty
- Size: 5.0"L x 3.0"W x 1.26"H







# 65-Watt Open Frame

### PS-65, PD-65 & PT-65 Series: Single, Dual & Triple Outputs

- 100% full-load burn-in
- · Universal AC input · 105°C output capacitor Voltage adjustment: 10%
- · Line & load regulation:
- ±1.0 to ±4.0% (see <u>www.Jameco.com</u>) -10°C to +60°C working temperature
- (see www.Jameco.com) **△** (€
- · Inrush current: 20A@120VAC
- · Weight: 0.6 lbs Two-year warranty
- Size: 5.0"L x 3.0"W x 1.65"H





### 65-Watt Open Frame with Power Factor Correction NLP65-96 Series: Single & Triple Outputs

- · 100% full-load burn-in
- · No minimum load required
- Line regulation: ±2.0%

Enclosed Power Supplies on pages 156-163.

- Two-year warranty
- · Universal AC input
- 75 watts with 20 CFM of air
- · Weight: 0.6 lbs.
- Power Factor Correction · Load regulation: ±2.0%

For Complete Specifications visit <u>www.Jameco.com</u>.

- Inrush current: 17A@120VAC 0° to +70°C working temperature (see www.Jameco.com)
  - Size: 5.0"L x 3.0"W x 1.26"H



L	Lower \$\$\$	$\mathbf{I}$	<b>Quantity SAVE</b>
			*

Jameco		Manufacturer	Output		Input	Ripple & Noise			Price	
Part No.	Manufacturer	Product Number	Voltage@Current (min-max)	Power	(VAC @ Hz)	(mV p-p)*	Certification	1	10	25
217331CH	Mean Well	PS-45-5	+5V@0-8A	40.0W	90-264@47-440	100	UL/CUL/TUV/CE	\$22.95	\$19.51	\$14.63
213727CH	Mean Well	PS-45-12	+12V@0-3.7A	44.4W	90-264@47-440	100	UL/CUL/TUV/CE	27.95	21.99	19.85
213719CH	Mean Well	PS-45-24	+24V@0-1.9A	45.6W	90-264@47-440	100	UL/CUL/TUV/CE	27.95	21.99	19.85
213701CH	Mean Well	PS-45-48 <b>©</b>	+48V@0-1A	48.0W	90-264@47-440	100	UL/CUL/TUV/CE	\$21.95 17.29	15.73	14.30
194861CH	Mean Well	PD-45A	+5V@0.4-3.2A; +12V@0.2-2	40.0W	90-264@47-440	50	UL/CUL/TUV/CE	24.95	22.46	20.21
194870CH	Mean Well	PD-45B	+5V@0.4-3.2A; +24V@0.2-1.2A	44.8W	90-264@47-440	50	UL/CUL/TUV/CE	24.95	22.46	20.21
88401CH	Mean Well	PT-45B	+5V@0.4-3A; +12V@0.2-2A; -12V@0-0.3A	45.0W	90-264@47-440	50	UL/CUL/TUV/CE	29.95	23.09	20.89
252401CH	Mean Well	LPS-50-12	+12V@0-4.2A	50.4W	90-264@47-63	80	UL/CUL/TUV/CE	28.95	23.65	20.95
252620CH	Mean Well	LPS-50-24	+24V@0-2.1A	50.4W	90-264@47-63	80	UL/CUL/TUV/CE	28.95	23.65	20.95
218561CH	Artesyn	NLP65-7605	+5V@0-13A	65.0W	85-264@47-63	50	UL/CUL/CSA/VDE/CE	\$52 <sup>.99</sup> 49.49	44.96	40.87
218579CH	Artesyn	NLP65-7612	+12V@0-5.4A	64.8W	85-264@47-63	120	UL/CUL/CSA/VDE/CE	52.65	47.85	43.50
218587CH	Artesyn	NLP65-7608	+5V@0-7.5A; +12V@0-2.5A; -12V@0-0.65A	75.3W	85-264@47-63	50	UL/CUL/CSA/VDE/CE	52.95	48.13	43.76
201937CH	Mean Well	PS-65-5	+5V@0-12A	60.0W	90-264@47-440	100	UL/CUL/TUV/CE	29.95	25.46	19.09
148638CH	Mean Well	PS-65-12	+12V@0-5.2A Other V	62.4W	90-264@47-440	100	UL/CUL/TUV/CE	29.95	25.29	21.99
216750CH	Mean Well	PS-65-15	+12V@0-5.2A +15V@0-4.2A +24V@0-2.7A **24V@0-2.7A	63.0W	90-264@47-440	100	UL/CUL/TUV/CE	24.95	21.21	15.91
148646CH	Mean Well	PS-65-24	+24V@0-2.7A +27V@0-2.4A	64.8W	90-264@47-440	100	UL/CUL/TUV/CE	29.95	25.29	21.99
201945CH	Mean Well	PS-65-27	+27V@0-2.4A	64.8W	90-264@47-440	100	UL/CUL/TUV/CE	29.95	25.29	21.99
201953CH	Mean Well	PS-65-48	+48V@0-1.35A	64.8W	90-264@47-440	100	UL/CUL/TUV/CE	29.95	25.29	21.99
194888CH	Mean Well	PD-65A	+5V@0.4-7A;+12V@0.2-3.2A	61.1W	90-264@47-440	50	UL/CUL/TUV/CE	34.95	26.39	23.09
194896CH	Mean Well	PD-65B	+5V@0.4-3.5A; +24V@0.2-2A	65.5W	90-264@47-440	50	UL/CUL/TUV/CE	34.95	26.39	23.09
216733CH	Mean Well	PT-65B	+5V@0.4-5.5A; +12V@0.2-2.5A; -12V@0-0.5A	63.5W	90-264@47-440	50	UL/CUL/TUV/CE	36.95	28.59	25.29
216725CH	Mean Well	PT-65C	+5V@0.4-5.5A; +15V@0.2-2A; -15V@0-0.5A	65.0W	90-264@47-440	50	UL/CUL/TUV/CE	36.95	28.59	25.29
218595CH	Artesyn	NLP65-9612	+12V@0-5.4A	64.8W	85-264@47-63	120	UL/CUL/CSA/VDE/CE	61.49	55.90	50.82
218616CH	Artesyn	NLP65-9608	+5V@0-7.5A; +12V@0-2.5A; -12V@0-0.65A	75.3W	85-264@47-63	50	UL/CUL/CSA/VDE/CE	61.45	55.87	50.79

\* Primary Output

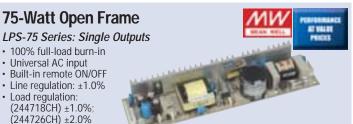
**☼** Blue Part No. = Limited Quantity Available

# **Lowest Price** Guarantee

Found a product at a lower print advertised price? We'll beat that price by 10% right down to our cost!



c Alus (A) C E



· Voltage adjustment: 10%

 Inrush current: 24A@120VAC • -20°C to +60°C working temperature (see www.Jameco.com)

 Two-year warranty Weight: 0.5 lbs.

c Rus (A) CE

Size: 8.74"L x 2.16"W x 1.18"H

# 100-Watt Open Frame

LPS-100 Series: Single Output

· 100% full-load burn-in · Auto-switch AC input

· No minimum load required

· 105°C output capacitor

 Load regulation: ±1.5% except 173462CH: ±0.5%

 Line regulation: ±0.5% Voltage adjustment: 10%

Inrush current: 30A@120VAC

• Three-year warranty • Weight: 0.8 lbs. • Size: 8.74"L x 2.44" x 1.25"W

-10°C to +60°C working temperature (see <u>www.Jameco.com</u>)

# 100-Watt Open Frame **With Power Factor Correction**

# LPP-100 Series: Single Output

- · 100% full-load burn-in
- · Auto-switch AC input
- · No minimum load required
- 4.4 watts/in3 maximum
- · 105°C output capacitor Power Factor Correction
- Load regulation: ±0.5%
- Line regulation: ±0.5%
- Isolation voltage: 3000VAC
- · Voltage adjustment: 10%
- Three-year warranty
  Weight: 0.8 lbs.
  Mounting holes: 8.34"L x 2.04"W x 0.13"Dia. • Size: 8.75"L x 2.44"W x 1.25"H
- Mating connectors: P/Ns 215950CH & 215976CH, pg 106



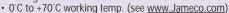
• Inrush current: 40A@120VAC

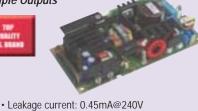
· Leakage current: 2.0mA@240V

# 110-Watt Open Frame With Power Factor Correction

### NLP110 Series: Sinale & Triple Outputs

- · 100% full-load burn-in
- · Universal AC input
- Power Factor Correction
- 6 watts/in³ maximum
- · 105°C output capacitor Load regulation: ±2.0%
- Line regulation: ±2.0%
- Inrush current: 18A@120VAC
- Isolation voltage: 3000VAC · Voltage adjustment: 3%
- Two-year warranty
- Size: 6.5"L x 3.0"W x 1.26"H
- · 110W with 20 CFM of air · Weight: 0.6 lbs.
  - Mounting holes: 6.05"L x 2.55"W
- Mating connectors: P/Ns 104432CH & 2 ea. 104731CH, pg 106





ARTES



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	Power Supplie ges 156-163.	SALE	For Complete Specifications visit	www.Ja	meco.com.	Quant	ity SAVE	-	Call for LO RICES on Quant	Larger
Jameco		Manufacturer	Output		Input	Ripple & Noise			Price	
Part No.	Manufacturer	Product Number	Voltage@Current (min-max)	Power	(VAC @ Hz)	(mV p-p)*	Certification	1	10	2
244718CH	Mean Well	LPS-75-12	+12V@0-6.8A	74.4W	90-264@47-63	100	UL/CUL/TUV/CE	\$34.95	\$33.20	\$31.54
244726CH	Mean Well	LPS-75-24	+24V@0-3.5A	76.8W	90-264@47-63	120	UL/CUL/TUV/CE	\$38.9 <sup>5</sup> 34.95	29.71	22.28

Jameco		Manufacturer	Output		Input	Noise			Price	
Part No.	Manufacturer	Product Number	Voltage@Current (min-max)	Power	(VAC @ Hz)	(mV p-p)*	Certification	1	10	25
244718CH	Mean Well	LPS-75-12	+12V@0-6.8A	74.4W	90-264@47-63	100	UL/CUL/TUV/CE	\$34.95	\$33.20	\$31.54
244726CH	Mean Well	LPS-75-24	+24V@0-3.5A	76.8W	90-264@47-63	120	UL/CUL/TUV/CE	\$38. <sup>95</sup> 34.95	29.71	22.28
173471CH	Mean Well	LPS-100-12	+12V@0-8.4A	100.8W	88-264@47-63	100	UL/CUL/TUV/CE	52.95	48.39	42.89
173462CH	Mean Well	LPS-100-24	+24V@0-4.2A	100.8W	88-264@47-63	150	UL/CUL/TUV/CE	52.95	48.39	42.89
216709CH	Mean Well	LPS-100-48	+48V@0-2.1A Other Versions	100.8W	88-264@47-63	200	UL/CUL/TUV/CE	52.95	45.01	33.76
216688CH	Mean Well	LPP-100-12		102.0W	85-264@47-63	100	UL/CUL/TUV/CE	57.39	51.65	46.49
216670CH	Mean Well	LPP-100-15	+12V@0-8.5A +15V@0-6.7A Available: 4242	100.5W	85-264@47-63	100	UL/CUL/TUV/CE	\$45. <sup>19</sup> 38.29	34.78	31.62
204610CH	Mean Well	LPP-100-24	+24V@0-4.2A	100.8W	85-264@47-63	150	UL/CUL/TUV/CE	64.95	55.21	41.41
216653CH	Mean Well	LPP-100-48	+48V@0-2.1A	100.8W	85-264@47-63	250			35.83	32.57
218915CH	Artesyn	NLP110-9605	+5V@0.5-15A	75.0W	90-264@47-63	50	UL/CUL/CSA/VDE	\$73.0 <sup>9</sup> 59.49	54.11	49.19
218923CH	Artesyn	NLP110-9612	+12V@0.3-6.4A	76.8W	90-264@47-63	120	UL/CUL/CSA/VDE	\$8 <sup>0.85</sup> 70.15	63.76	57.97
218931CH	Artesyn	NLP110-9624	+24V@0.2-3.2A	76.8W	90-264@47-63	240	UL/CUL/CSA/VDE	\$80 <sup>.69</sup> 69.99	64.51	58.65
218940CH	Artesyn	NLP110-9693	+3.3V@0.2-13A;+5V@0.5-13A; +12V@0-0.65A	110.0W	90-264@47-63	50	UL/CUL/CSA/VDE	\$80.69 69.99	64.51	58.65
218958CH	Artesyn	NLP110-9608	+5V@0.2-13A; +12V@0.2-6.5A; -12V@0-0.65A	110.0W	90-264@47-63	120	UL/CUL/CSA/VDE	\$38: <sup>95</sup> 87.89	79.88	72.62

\* Primary Output

		SA	Special Of	fers a	t Great Savi	ings – 90	O-Day Wa	rranty		Quan	tity SAVE			
Jameco		Manufacturer	Output		Input	Size Inches	Mounting Holes Inches	Ripple & Noise	Reg.	Line Reg.			Price	
Part No.	Mfr.	Product No.	Voltage@Current (min-max)	Power	(VAC @ Hz)	(LxWxH)	(LxWxDia.)	(mV p-p)*	(±%)*	(±%)*	Certification	1	10	25
169068CH	Autec	UPS65-1051	+5V@0.2-13A	65.0W	115/230@50-60	6.0x3.5x1.5	4.8x3.2x0.16	50	1.0	0.5		\$4.89 \$4.89	\$4.44	\$4.03
237024CH	Lite-On	PA-1101-1	+12V@2-8.5A	102.0W	85-264@47-63	6.0x4.0x1.3	_	1200	10.0	1.0	UL/CUL/TUV/CE	19.95	16.96	12.72
203326CH	EOS	VLT100-1004 <sup>†</sup>	+48V@0.2-2.1A	100.0W	100-240@50-60	5.0x3.0x1.0	4.6x2.6x0.16	480	3.0		UL/CUL/VDE/CE	27.95	23.75	17.85
171731CH	Delta	DPS-60MPB	+3.3V@0.8-8A; +5V@1-9A;	65.0W	90-270@47-63	5.8x3.3x1.4	_	50	2.0	2.0	UL/CUL/TUV	6.95	5.89	4.45
196824CH	Encad	U006612010	+5.2V@3A; +24V@2A	65.0W	90-250@50-60	6.3x3.9x1.5	_	_	_	_	UL/CUL/TUV	15.95	13.56	10.17
235088CH	Artesyn Power	NLP65-7629	+5V@0-7A; +12V@0-2.5A +12V@0.8A	65.0W	85-264@47-63	5.0x3.0x1.3	4.6x2.6x0.16	50	2.0	2.0	UL/CUL/CSA/CE	28.35	25.75	23.45
226211CH	Phihong	PSA-60-302	+5V@6A; +12V@1.2A; -12V@1.2A	60.0W	100-240@50-60	5.0x3.0x1.6	4.5x2.5x0.15	50	2.0	2.0	UL/CSA/VDE	29.95	25.46	19.09
215706CH	Mean Well	PT-65D	+5V@0.5-4A; +12V@0.2-2A; +24V@0.2-1A	65.0W	90-264@47-440	5.0x3.0x1.5	4.6x2.6x0.15	50	2.0	1.0	UL/CUL/TUV/CE	24.95	22.45	20.19
229850CH	IPD Power	SRW-65-3003	+5V@5A; +15V@3.5A; -15V@1A	65.0W	85-264@47-63	6.0x4.0x1.1	5.7x3.5x0.15	50	1.0	_	UL/CUL/TUV/CE	22.95	19.51	14.63
202876CH	Power-One	MAP80-4003	+5V@14A; +15V@3.5A; -5V@1A; -15V@1A	80.0W	100/230@47-63	7.2x4.3x1.8	6.7x3.2x0.17	50	1.0	0.2	UL/CSA/TUV/CE	19.95	16.96	16.54

Primary Output † Power Factor Correction

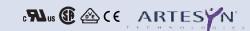


c Plus 🔔

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# 110 to 350W Open-Frame Switching AC-to-DC Power Supplies

# 110-Watt Open Frame







- NFS110-76 Series: Single & Quad Outputs
- · 100% full-load burn-in
- 2.8 watts/in3 maximum
- Inrush current: 35A@120VAC • Size: 7.0"L x 4.25"W x 1.8"H
- Load regulation: ±2.0%
- Isolation voltage: 3000VAC

· Universal AC input

- · Weight: 1.3 lbs.
- Mating connectors: P/Ns 104723CH, 104766CH & 104432CH, pg 106
- · 110W with 20 CFM of air
- Line regulation: ±0.1%
- · Voltage adjustment: 3%
- Leakage current: 0.2mA@240V
- Mounting holes: 6.6"L x 3.75"W x 0.16"Dia
- 0°C to +70°C working temp. (see www.Jameco.com) Two-year warranty

# 125-Watt Open Frame With Power Factor Correction

- 100% full-load burn-in
- Leakage current: <2mA@240V
- PPS-125 Series: Single Output
- · Universal AC input/full range Inrush current: 40A@230VAC (max.)
  - · Line regulation: ±0.5%
    - Size: 5.0"L x 2.4"W x 1.4"H









· Load regulation: ±1.0%

PPT-125 Series: Triple Output Load regulation: ±3.0%

• -20° to +60°C working temperature (see www.Jameco.com)

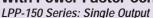
• -40° to +85°C working temperature (see www.Jameco.com)

# 150-Watt Open Frame With Power Factor Correction

NLP150 Series: Single & Quad Output

- · Parallel operation (current sharing)
- · Universal AC input
- · 100% full-load burn-in
- · Line regualtion: ±2.0% Load regulation: ±2.0%
- Inrush current: 40A@120VAC
- · Isolation voltage: 3000VAC Leakage current: 1mA@240V
- Mating connectors: P/N 104432CH, pg 106 & 103587CH, pg 120
- 0° to +70°C working temperature (see www.Jameco.com) Two-year warranty
- Size: 6.8"L x 3.8"W x 1.26"H





- · 100% full-load burn-in
- · Leakage current: 3.5mA@240V
- · Voltage adjustment: 10%
- Line regulation: ±0.5%
- Inrush current: 40A@120VAC
- Isolation voltage: 3000VAC
- 105°C output capacitor
- · Auto-switch AC input Load regulation: 213680CH: ±1.0%; 213671CH & 216645CH: ±0.5%
- Mating connectors: P/N 215950CH & 215968CH, pg 105
- -10°C to +60°C working temp. (see www.Jameco.com)
- Size: 8.74"L x 2.95"W x 1.61"H Three-year warranty



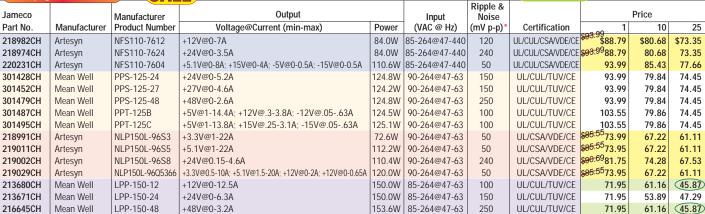
Quantity SAVE

# **Enclosed Power Supplies** on pages 156-163



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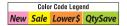
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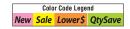
Primary Output

			Special Of	fers a	t Great Sav	ings – 90	O-Day Wa	rranty			Qual	ility SA	9	
Jameco		Manufacturer	Output		Input	Size Inches	Mounting Holes Inches	Ripple & Noise	Load Reg.	Line Reg.			Price	
Part No.	Mfr.	Product No.	Voltage@Current (min-max)	Power	(VAC @ Hz)	(LxWxH)	(LxWxDia.)	(mV p-p)*	(±%)*	(±%)*	Certification	1	10	25
354925CH	Phihong	PSF151-240C	+24VDC@6A	150.0W	90-264@47-63	8.0x4.2x1.5	_	240	3.0	0.5	UL/CUL/TUV/CE	\$39.95	\$35.95	\$32.36
196795CH	Cherokee	QP2A2-1A-A	+5V@40A; +12V@2.5A	230.0W	115/230@50-60	10.0x4.3x2.5	7.5x3.0x0.15	50	0.25	0.25	TUV	14.95	12.71	9.53
204581CH	Digital Pwr	UP300-201 <b>≎</b>	+5V@1-40A; +12V@0.2-12A	300.0W	90-250@47-63	8.0x4.5x2.0	7.6x3.2x0.10	50	1.0	0.2	UL/CUL/CSA/TUV/CE	18.69	17.78	16.89
220193CH	Cherokee	MQT154A1†	+3.3V@8A; +5V@26A; +12V@6A; -12V@1A	150.0W	100-240@47-63	8.0x4.3x1.5	6.4x2.5x0.13	_	-	-	UL/CSA	28.95	23.19	17.39
196701CH	Astec	NTQ123	+3.3V@0-25A; +5V@2-24A +12V@0-2A; -12V@0-1A	120.0W	85-264@47-63	7.0x4.0x1.5	_	50	_	_	UL/CSA/VDE/CE	28.95	25.95	19.95
211297CH	Power-One	MAP110-4300 <sup>†</sup>	+3.3V@15A; +5V@8A; +12V@1A; -12V@1A	110.0W	85-264@47-63	7.0x4.3x2.0	6.5x2.8x0.17	30	0.7	0.3	UL/CSA/TUV/CE	9.95	8.46	6.34
210905CH	Lambda	WA305-00-03	+5V@50A; +12V@10A; +24V@4A; -5.2V@4A; -12V@4A	300.0W	85-264@45-440	11.9x5.0x1.8	8.1x2.5x0.16	50	1.0	0.2	UL/CSA/CE	49.95	44.96	40.46
196461CH	TODD ♣	MAX3541205AC	+5V@50A; +12V@12A; -5V@2A; -12V@4A	350.0W	115/230@50-60	9.0x5.0x2.5	6.5x3.9x0.08	50	1.0	1.0	TUV	47.95	40.79	30.59

♣ Pull = Extra Savings

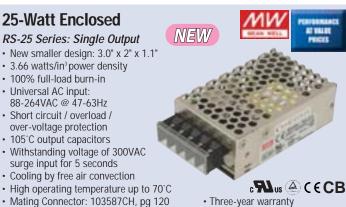


# 25 to 40-Watt Enclosed Switching AC-to-DC Power Supplies



AL ACE

CECB



# 25-Watt Enclosed

### S-25 Series: Sinale Output

- · 100% full-load burn-in
- · Universal AC input:
- 88-264VAC @ 47-63Hz
- · No minimum load required
- 1.2 watts/in3 maximum
- · Voltage adjustment: 10%
- 105°C output capacitor
- · Mating connector: 103587CH, pg 120

• -10°C to +60°C working temperature (see www.Jameco.com)

· Mounting hardware: use P/Ns 222121CH, 222156CH, 222172CH & 222164CH; see www.Jameco.com for specifications

Two-year warranty



# 35-Watt Enclosed

### RS-35 & RD-35 Series: Single & Dual Output

- New smaller design: 3.9" x 3.2" x 1.4"
- · 2 watts/in3 power density
- · 100% full-load burn-in
- · Universal AC input:
- 88-264VAC @ 47-63Hz
- · Short circuit / overload / over-voltage protection
- · 105°C output capacitors
- · Withstanding voltage of 300VAC surge input for 5 seconds
- · Cooling by free air convection
- · High operating temperature up to 70°C
- · Mating Connector: 103587CH, pg 120











# 40-Watt Enclosed

### S-40 & T-40 Series: Single & Triple Output

- · 100% full-load burn-in
- · Universal AC input: 88-264VAC @ 47-63Hz
- 105°C output capacitor
- 1.6 watts/in<sup>3</sup> maximum
- · Voltage adjustment: 10% · Mating connector:
- P/N 103587CH, pg 120
- -10°C to +60°C working temperature (see www.Jameco.com)
- Mounting hardware: use P/Ns 222121CH, 222156CH & 222172CH (see www.Jameco.com)
- · Two-year warranty



Call for LOWER PRICES on Larger

Quantities

on pages 150-155

### For Complete Specifications visit www.Jameco.com.

Jameco		Manufacturer	Output		Ripple & Noise	Load Reg.	Line Reg.	Quartite		Pricing	
Part No.	Manufacturer	Product No.	Voltage@Current (min-max)	Power	(mV p-p)*	(±%)*	(±%)*	Certification	1	10	25
323281CH	Mean Well	RS-25-5	+5V@0-5A	25.0W	80	1	0.5	UL/CUL/TUV/CE/CB	\$27.55	\$23.75	\$22.59
323299CH	Mean Well	RS-25-12	+12V@0-2.1A	25.2W	120	0.5	0.5	UL/CUL/TUV/CE/CB	27.55	23.75	22.59
323301CH	Mean Well	RS-25-15	+15V@0-1.7A	25.5W	120	0.5	0.5	UL/CUL/TUV/CE/CB	27.55	23.75	22.59
323310CH	Mean Well	RS-25-24	+24V@0-1.1A	26.4W	120	0.5	0.5	UL/CUL/TUV/CE/CB	27.55	23.75	22.59
123246CH	Mean Well	S-25-5	+5V@0-5A	25.0W	50	1	0.5	UL/TUV/CE	39.95	32.10	28.90
123254CH	Mean Well	S-25-12	+5V@0-5A +12V@0-2.1A +15V@0-1.7A Other Versions Available: Call	25.2W	100	0.5	0.5	UL/TUV/CE	39.95	32.10	28.90
123262CH	Mean Well	S-25-15	+15V@0-1.7A +24V@0-1.1A	25.5W	100	0.5	0.5	UL/TUV/CE	39.95	32.10	28.90
123271CH	Mean Well	S-25-24	+24V@0-1.1A	26.4W	100	0.5	0.5	UL/TUV/CE	39.95	32.10	28.90
323328CH	Mean Well	RS-35-5	+5V@0-7A	35.0W	80	1	0.5	UL/CUL/TUV/CE/CB	34.25	28.55	27.15
323336CH	Mean Well	RS-35-12	+12V@0-3A	36.0W	120	0.5	0.5	UL/CUL/TUV/CE/CB	34.25	28.55	27.15
323344CH	Mean Well	RS-35-15	+15V@0-2.4A <b>NEW</b>	36.0W	120	0.5	0.5	UL/CUL/TUV/CE/CB	34.25	28.55	27.15
323352CH	Mean Well	RS-35-24	+24V@0-1.5A	36.0W	120	0.5	0.5	UL/CUL/TUV/CE/CB	34.25	28.55	27.15
323361CH	Mean Well	RD-35A	+5V@0.3-4A; +12V@0.2-1A	32.0W	80	0.5	0.5	UL/CUL/TUV/CE/CB	37.05	32.35	30.75
323379CH	Mean Well	RD-35B	+5V@0.3-4A; +24V@0.2-1.3A	51.2W	80	0.5	0.5	UL/CUL/TUV/CE/CB	37.05	32.35	30.75
123289CH	Mean Well	S-40-5	+5V@0-8A	40.0W	75	1	0.5	UL/CUL/TUV/CE/CB	44.95	38.60	34.70
123297CH	Mean Well	S-40-12	+12V@0-3.5A	42.0W	100	0.5	0.5	UL/CUL/TUV/CE/CB	44.95	38.60	34.70
202139CH	Mean Well	S-40-15	+15V@0-2.8A	42.0W	100	0.5	0.5	UL/CUL/TUV/CE/CB	44.95	38.60	34.70
123318CH	Mean Well	S-40-24	+24V@0-1.8A	43.0W	100	0.5	0.5	UL/CUL/TUV/CE/CB	44.95	38.60	34.70
201988CH	Mean Well	T-40A	+5V@0.6-3A; +12V@0.2-2A; -5V@0.1-0.5A	41.5W	100	0.5	0.5	CSA/CE	49.95	42.46	31.84
201996CH	Mean Well	T-40B	+5V@0.6-3A; +12V@0.2-2A; -12V@0.1-0.5A	45.0W	100	0.5	0.5	CSA/CE	49.95	42.10	37.90
202008CH	Mean Well	T-40C	+5V@0.6-3A; +15V@0.2-1.5A; -15V@0.1-0.5A	45.0W	100	0.5	0.5	CSA/CE	49.95	42.10	37.90

Primary Output

# Jameco's Got the Docs

We offer free technical documents for most of the products we carry. Find them easily on the product spec page @ www.Jameco.com.



# 50 to 65-Watt Enclosed Switching AC-to-DC Power Supplies

### 50-Watt Enclosed





MEW

RS-50, RD-50, RT-50, & RQ-50 Series: Single, Dual, Triple & Quad Output

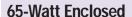
- New smaller design: 3.9" x 3.8" x 1.4"
- 2.4 watts/in³ power density
- · 100% full-load burn-in
- · Universal AC input: 88-264VAC@47-63Hz
- · Short circuit / overload / over-voltage protection
- 105°C output capacitors
- · Withstanding voltage of 300VAC surge input for 5 seconds
- · Cooling by free air convection
- · High operating temperature up to 70°C
- Mating Connector: 103587CH, pg 120
- Three-year warranty



### 60-Watt Enclosed

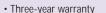
S-60, D-60, T-60 & Q-60 Series: Single, Dual, Triple & Quad Outputs

- 100% full-load burn-in • 1.7 watts/in3 maximum
- 105°C output capacitor · Voltage adjustment: 10%
- Universal AC input: 88-264VAC@47-63Hz
- · Mating connector: P/N 103587CH, pg 120
- -10°C to +60°C working temperature (see www.Jameco.com)
- · Mounting hardware: use P/Ns 222130CH, 222156CH
  - & 222172CH (see www.Jameco.com) Two-year warranty



RD-65, RT-65 & RQ-65 Series: Dual, Triple & Quad Outputs

- New smaller design: 5.1" x 3.9" x 1.5"
- · 2.2 watts/in3 power density
- · 100% full-load burn-in
- · 105°C output capacitors
- Universal AC input: 88-264VAC@47-63Hz
- · Short circuit / overload / over-voltage protection
- · Cooling by free air convection
- High operating temperature up to 70°C
- · Withstanding voltage of 300VAC surge input for 5 seconds
- Mating Connector: 103587CH, pg 120







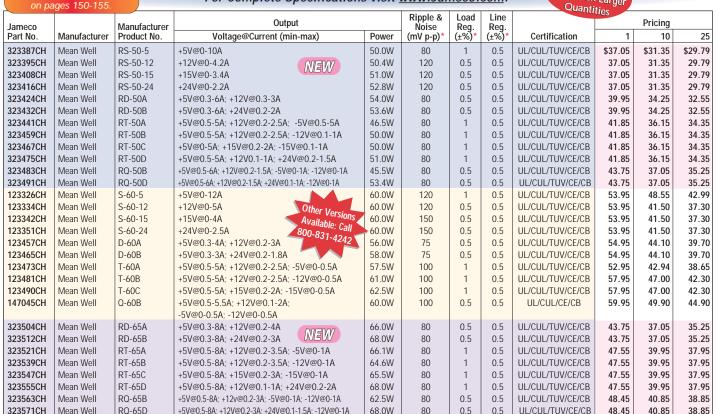


Call for LOWER PRICES on Larger

c**¶**us (€CB

Open-Frame Power Supplies on pages 150-15!

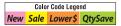
For Complete Specifications visit www.Jameco.com.





Primary Out	put		Special Offers at Great Sa	vings -	- 90-Day l	Narrai	nty		SALE		
Jameco Manufacturer Output				Ripple & Noise	Load Reg.	Line Reg.			Pricing		
Part No.	Manufacturer	Product No.	Voltage@Current (min-max)	Power	(mV p-p)	(±%)	(±%)	Certification	1	10	25
211115CH	Fortron	SU65P10C <b>☉</b>	+5V@0-10A	50.0W	50	_	0.5	UL/CSA/TUV/CE	\$2.05	\$1.85	\$1.69

Rlue Part No = Limited Quantity Available



c**FL**us

# 75-Watt Enclosed with **Power Factor Correction**

RS-75 Series: Single Output

- New smaller design: 5.1" x 3.9" x 1.5"
- · 2.5 watts/in3 power density
- · 100% full-load burn-in
- · Universal AC input: 88-264VAC @ 47-63Hz
- · Short circuit / overload / over-voltage protection
- 105°C output capacitors
- · Withstanding voltage of 300VAC surge input for 5 seconds
- · Cooling by free air convection
- · High operating temperature up to 70°C
- · Mating Connector: 103587CH, pg 120
- · Three-year warranty



Manufacturer

Product No.

RS-75-5

RS-75-12

RS-75-15

RS-75-24

SP-75-5

SP-75-12

SP-75-15

SP-75-24

SP-75-48

RD-85A

RD-85B

RT-85A

RT-85B

RT-85C

RT-85D

RQ-85B

RQ-85D

# 75-Watt Enclosed with **Power Factor Correction**

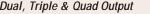
SP-75 Series: Single Output

- · 100% full-load burn-in
- · Universal AC input
- · 105°C output capacitor
- · 2.1 watts/in3 max.
- · Power Factor Correction
- · Voltage adj.: 10%
- Input: 85-264VAC@47-63Hz
- · No minimum load required
- · Mating connector: P/N 103587CH, pg 120
- -10°C to +60°C working temperature (see www.Jameco.com)
- · Mounting hardware: use P/Ns 222148CH, 222156CH, 222164CH & 222172CH; (see www.Jameco.com for specifications)



# 85-Watt Enclosed with **Power Factor Correction**

RD-85, RT-85 & RQ-85 Series: Dual, Triple & Quad Output



- New smaller design: 6.3" x 3.8" x 1.5
- · 2.4 watts/in3 power density
- 100% full-load burn-in
- · Universal AC input: 88-264VAC @ 47-63Hz
- Short circuit / overload / over-voltage protection
- · 105°C output capacitors
- · Withstanding voltage of 300VAC surge input for 5 seconds
- · Cooling by free air convection
- · High operating temperature up to 70°C
- · Mating Connector: 103587CH, pg 120
- · Three-year warranty

c**PL**us





Manufacturer

Mean Well

+5V@2-10A; +12v@0.3-4A; +24V@0.1-1.5A; -12V@0-1A

c **FLI**us

For Complete Specifications visit www.Jameco.com

84.0W

Quantities Quantities	ications	o visit <u>vvi</u>	ww.Ja	meco	SAL	E Q	uantity S	AVE)
Output		Ripple & Noise	Load Reg.	Line Reg.			Pricing	
Voltage@Current (min-max)	Power	(mV p-p)*	(±%)*	(±%)*	Certification	1	10	25
+5V@0-12A	60.0W	80	1	0.5	UL/CUL/TUV/CE/CB	\$41.85	\$35.15	\$33.39
+12V@0-6A	72.0W	120	0.5	0.5	UL/CUL/TUV/CE/CB	41.85	35.15	33.39
+15V@0-5A	75.0W	120	0.5	0.5	UL/CUL/TUV/CE/CB	41.85	35.15	33.39
+24V@0-3.2A	76.8W	120	0.5	0.5	UL/CUL/TUV/CE/CB	41.85	35.15	33.39
+5V@0-15A Other Versions	75.0W	80	1	0.5	UL/CUL/TUV/CE/CB	59.95	53.96	48.56
+5V@0-15A +12V@0-6.3A +15V@0-5A Omes Available: Call 800-831-4242	75.6W	80	0.5	0.5	UL/CUL/TUV/CE/CB	69.95	61.05	53.89
+15V@0-5A 800-831-42	75.0W	80	0.5	0.5	UL/CUL/TUV/CE/CB	69.95	61.05	53.89
+24V@0-3.2A	76.8W	100	0.5	0.5	UL/CUL/TUV/CE/CB	69.95	61.05	53.89
+48V@0-1.6A	76.8W	100	0.5	0.5	UL/CUL/TUV/CE/CB	64.95	55.21	41.41
+5V@2-10A; +12V@0.3-5A	110.0W	80	1	0.5	UL/CUL/TUV/CE/CB	61.75	52.25	49.65
+5V@2-10A; +24V@0.3-2.5A	110.0W	80	1	0.5	UL/CUL/TUV/CE/CB	61.75	52.25	49.65
+5V@2-10A; +12V@0.3-4A; -5V@0-1A	84.5W	80	1	0.5	UL/CUL/TUV/CE/CB	66.55	57.05	54.25
+5V@2-10A; +12V@0.3-4A; -12V@0-1A	88.0W	80	1	0.5	UL/CUL/TUV/CE/CB	66.55	57.05	54.25
+5V@2-10A; +15V@0.3-4A; -15V@0-1A	87.5W	80	1	0.5	UL/CUL/TUV/CE/CB	66.55	57.05	54.25
+5V@2-10A; +12V@0.1-1A; +24V@0.3-2.5A	90.0W	80	1	0.5	UL/CUL/TUV/CE/CB	66.55	57.05	54.25
+5v@2-10A; +12v@0.3-4A; -5V@0-1A; -12V@0-1A	80.7W	80	1	0.5	UL/CUL/TUV/CE/CB	68.45	57.95	55.05

323694CH Primary Output

Jameco

Part No.

323580CH

323598CH

323601CH

323619CH

194829CH

194837CH

194845CH

194853CH

216805CH

323627CH

323635CH

323643CH

323651CH

323660CH

323678CH

323686CH

		Awe	esome .	Prices i	n Powe	r Supp	olies!			
Jameco Power	Jameco Part No.	Comp. Part No.	Comp. Power	Jameco® Price	Newark® Price	Allied® Price	Digi-Key® Price	Mouser® Price		imum Discount
75W	323598CH	Condor GLC75-12	75W	\$41.85	_	\$72.62	\$72.26	\$72.76	\$30.41	42.1%
75W	323598CH	Lambda SWS75-5	75W	\$41.85	\$46.75	\$57.27	_	_	\$4.90	10.5%
85W	323686CH	Condor GPC80B	80W	\$68.45	_	\$120.72	\$114.11	\$120.12	\$45.66	40.0%
100W	323731CH	Lambda SWS100-24	100W	\$57.95	\$59.40	\$75.00	_	_	\$1.45	2.4%
100W	194811CH	Condor GPFC110-24	110W	\$81.95	_	_	\$100.53	\$100.53	\$18.58	18.5%
120W	132370CH	Condor GPC130D	130W	\$79.95	_	\$175.59	\$165.98	\$174.72	\$86.03	51.8%

These are single unit prices taken from each party's website on March 17, 2005, and do not include shipping & handling charges, volume discounts or any other discounts. Pricing does fluctuate, so please be sure to check when making purchases.

**Lowest Price Guarantee** 

Found a product at a lower print-advertised price? We'll beat that price by 10% right down to our cost!

# **Open Frame Power Supplies**

68.45

See pages 150-155 for our selection of Open Frame Power Supplies.

UL/CUL/TUV/CE/CB







# 100 to 120-Watt Enclosed Switching AC-to-DC Power Supplies



- · Short circuit / overload / over-voltage protection
- · Withstanding voltage of 300VAC surge input for 5 seconds
- · Mating Connector: 103587CH, pg 120
- c**Al**us ▲ C€CB

c¶us ≜ C€ CB



· Three-year warranty

SP-100 & TP-100 Series: Single & Triple Outputs

- · 100% full-load burn-in
- · Universal AC input: 86-264VAC@47-63Hz
- 2.3 watts/in<sup>3</sup> maximum
- · Power Factor Correction
- 105°C output capacitors
- · Voltage adjustment: 10%
- Mating connector: P/N 103587CH, pg 120 Three-year warranty
- -10°C to +60°C working temperature (see www.Jameco.com)
- · Mounting hardware use P/Ns 222130CH, 222164CH, 222156CH, 222172CH & 222181CH (see www.Jameco.com for specifications)

### 100-Watt Enclosed

S-100F Series: Single Output

- 100% full-load burn-in
- 2.3 watts/in³ max.
- 105°C output capacitor
- · Voltage adj.: 10%
- No minimum load required
- Input: 88-132/176-264VAC@47-63Hz
- Mating connector: P/N 103587CH, pg 120
- -10°C to +60°C working temperature (see www.Jameco.com)
- Mounting hardware: use P/Ns 222130CH, 222156CH and 222172CH (see www.Jameco.com for specifications)
- Two-year warranty



AL ACE CB

### 120-Watt Enclosed

D-120, T-120 & Q-120 Series: Dual, Triple & Quad Outputs

- · 100% full-load burn-in
- · 105°C output capacitor
- · Mating connector: P/N 103587CH, pg 120
- -10°C to +60°C working temperature (see <a href="www.Jameco.com">www.Jameco.com</a> for output derating)
- · Mounting hardware: use P/Ns 222130CH, 222156CH and 222172CH (see www.Jameco.com for specifications)



Two-year warranty

all for LOWER

For Complete Specifications visit www.Jameco.com

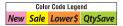
Open-Frame Power Supplies on pages 150-159

Jameco Manufacturer Output Ripple & Load Noise Reg. Reg. Reg.			VE	uantities Large							
			Output		Ripple &   Noise	Reg.	Reg.			Pricing	
Part No.	Manufacturer	Product No.	Voltage@Current (min-max)	Power	(mV p-p)*	(±%)*	(±%)*	Certification	1	10	25
323707CH	Mean Well	RS-100-5	+5V@0-16A	80.0W	80	1	0.5	UL/CUL/TUV/CE/CB	\$57.95	\$49.45	\$46.99
323715CH	Mean Well	RS-100-12	+12V@0-8.5A	102.0W	120	0.5	0.5	UL/CUL/TUV/CE/CB	57.95	49.45	46.99
323723CH	Mean Well	RS-100-15	+15V@0-7A	105.0W	120	0.5	0.5	UL/CUL/TUV/CE/CB	57.95	49.45	46.99
323731CH	Mean Well	RS-100-24	+24V@0-4.5A	108.0W	120	0.5	0.5	UL/CUL/TUV/CE/CB	57.95	49.45	46.99
201961CH	Mean Well	S-100F-5	+5V@0-20A	100.0W	100	1	0.5	UL/TUV/CE/CB	66.95	56.91	42.68
123385CH	Mean Well	S-100F-12	+12V@0-8.5A	102.0W	125	0.5	0.5	UL/TUV/CE/CB	66.95	49.90	44.90
212450CH	Mean Well	S-100F-15	+15V@0-6.7A	100.5W	125	0.5	0.5	UL/TUV/CE/CB	66.95	49.90	44.90
201970CH	Mean Well	S-100F-24	+15V@0-6.7A +24V@0-4.5A Other Versions	108.0W	150	0.5	0.5	UL/TUV/CE/CB	66.95	49.90	44.90
216792CH	Mean Well	S-100F-48		105.6W	150	0.5	0.5	UL/TUV/CE/CB	66.95	49.90	44.90
212441CH	Mean Well	SP-100-3.3 <b>☉</b>	+3.3V@0-20A	66.0W	100	1	0.5	UL/CUL/TUV/CE/CB	40.55	36.85	
194790CH	Mean Well	SP-100-5	+5V@0-20A	100.0W	100	1	0.5	UL/CUL/TUV/CE/CB	81.95	79.70	
194802CH	Mean Well	SP-100-12	+12V@0-8.5A	102.0W	100	0.5	0.5	UL/CUL/TUV/CE/CB	81.95	79.70	-
212433CH	Mean Well	SP-100-15	+15V@0-6.7A	100.5W	100	0.5	0.5	UL/CUL/TUV/CE/CB		43.54	
194811CH	Mean Well	SP-100-24	+24V@0-4.2A	100.8W	150	0.5	0.5	UL/CUL/TUV/CE/CB	81.95	79.70	
212425CH	Mean Well	SP-100-48	+48V@0-2.1A	100.8W	250	0.5	0.1	UL/CUL/TUV/CE/CB	69.95	59.46	
213778CH	Mean Well	TP-100C	+5V@3-10A; +15V@0.4-3A; -15V@0-0.6A	104.0W	100	3	1	UL/CUL/TUV/CE/CB	99.95	84.96	
132409CH	Mean Well	D-120A	5V@2-12A; 12V@0.5-5A	120.0W	60	0.5	0.5	UL/CUL/TUV/CE/CB	69.95	58.29	
132396CH	Mean Well	D-120B	5V@2-6A; 24V@0.4-4A	126.0W	60	0.5	0.5	UL/CUL/TUV/CE/CB	69.95	58.29	
301508CH	Mean Well	T-120B	5V@2-12A; 12V@0.5-5A; -12V@0.2-1A	121.0W	80	0.5	0.5	UL/CUL/TUV/CE/CB	74.95	61.04	
301516CH	Mean Well	T-120C	5V@2-12A; 15V@0.5-5A; -15V@0.2-1A	117.5W	80	0.5	0.5	UL/CUL/TUV/CE/CB	74.95	61.04	
132388CH	Mean Well	Q-120B	5V@2-11A; -5V@0.2-1A;	120.0W	80	0.5	0.5	UL/CUL/TUV/CE/CB	79.95	67.96	50.97
			12V@0.5-4A; -12V@0.2-1A						1	İ	1
132370CH	Mean Well	Q-120D	5V@2-8A; 24V@0.2-2A;	124.0W	80	0.5	0.5	UL/CUL/TUV/CE/CB	79.95	63.79	56.09
			12V@0.2-2A; -12V@0.2-1A						1	i	!

\* Primary Output 

	D.         Manufacturer         Product No.         Voltage@Current (min-max)         Power         (mV p-p)*         (±%)*           1CH         Volgen         SP100U-24S         +24V@4.4A         105.6W         150         0.4           8CH         Volgen         JRK-115B         +5V@4.5A; +15V@3.5A;         75.0W         100         0.8			nty	(NEW)	SALI	5				
Jameco		Manufacturer	Output				Line Reg.			Pricing	
Part No.	Manufacturer		Voltage@Current (min-max)	Power			(±%)*	Certification	1	10	25
323871CH	Volgen	SP100U-24S	+24V@4.4A	105.6W	150	0.4	0.2	_	\$49.95	\$44.96	\$40.46
205858CH	Volgen	JRK-115B	+5V@4.5A; +15V@3.5A;	75.0W	100	0.8	0.4	_	17.99	16.37	14.88
			+24V@0.4A; -5V@1.6A; -15V@1.5A								

\* Primary Output

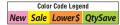


# 125 to 150-Watt Enclosed Switching AC-to-DC Power Supplies

4

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CE



CE



Universal AC input: 88-264VAC@47-63Hz

Short circuit / overload / over-voltage protection

· Withstanding voltage of 300VAC surge input for 5 seconds

• High operating temperature up to 70°C

• Mating Connector: 103587CH, pg 120

 Cooling by free air convection Three-year warranty

### 150-Watt Enclosed RS-150 Series: Single Output

• New smaller design: 7.8" x 3.9" x 1.5"

3.3 watts/in3 power density

100% full-load burn-in

· 105°C output capacitors

· Cooling by free air convection

· High operating temperature up to 70°C

Universal AC input: 88-264VAC@47-63Hz

Short circuit / overload / over-voltage protection

· Withstanding voltage of 300VAC surge input for 5 seconds

· Mating Connector: 103587CH, pg 120 Three-year warranty

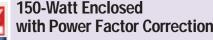
# c**Al**us 4 CE CB

# 150-Watt Enclosed

S-150 Series: Single Output

- · 100% full-load burn-in
- · No minimum load required
- · Voltage adj.: 10%
- 105°C output capacitors
- · Mating connector: P/N 103587CH, pg 120
- Input: 88-132/176-264@47-63Hz
- -10° to +60°C working temperature (see <u>www.Jameco.com</u>)
- · Mounting hardware: use P/Ns 222130CH, 222156CH & 222172CH (see www.Jameco.com)

Two-year warranty



SP-150, TP-150 & OP-150 Series: Single, Triple & Quad Outputs

- · 100% full-load burn-in
- · Universal AC input
- Power Factor Correction
- 105°C output capacitors

Mating connector: P/N 103587CH, pg 120

-10°C to +60°C working temperature (see <u>www.Jameco.com</u>)

 Mounting hardware: use P/Ns 222130CH, 222156CH, 222164CH, 222181CH & 222172CH (see www.Jameco.com for specifications) • Three-year warranty



\* Primary Output

			Special Offers at Great Sa	vings –	90-Day l	Varrai	nty				
Jameco Manufacturer Output						Load Reg.	Line Reg.			Pricing	
Part No.	Manufacturer	Product No.	Voltage@Current (min-max)	Power	(mV p-p)	(±%)	(±%)	Certification	1	10	25
199515CH	Globtek	RT-3S150-24	24V@6.5A	156.0W	100	5	5	UL/CE	\$59.95	\$47.95	\$35.95



cAlus (ACCCB)

# 200-Watt Enclosed **With Power Factor Correction** SP-200 Series: Single Output

- · 100% full-load burn-in
- · Universal AC input
- · No minimum load required
- Power Factor Correction
- · 105°C output capacitor
- 3.3 watts/in<sup>3</sup> maximum
- · Built-in fan cooling
- Input: 85-264VAC@47-63Hz
- Voltage adj.: 10%
   Three-year warranty Mating connector: P/N 103587CH, pg 120
- -10° to +60°C working temperature (see <u>www.Jameco.com</u>)
- Mounting hardware use P/Ns 222130CH, 222156CH, 222164CH,

222181CH & 222172CH (see www.Jameco.com for specifications)

c¶us (€ CB

CALus ACECB

# 240-Watt Enclosed

### S-240 Series: Single Output

- · 100% full-load burn-in
- · Auto-switch AC input · No minimum load required
- 3.4 watts/in3 maximum
- · 105°C output capacitor
- Auto cooling fan
- · Voltage adjustment: 10%
- · Mating connector: P/N 103587CH, pg 120
- Input: 88-132/176-264VAC@47-63Hz
- -10°C to +60°C working temperature (see <u>www.Jameco.com</u>) Mounting hardware use P/Ns 222148CH, 222156CH & 222172CH
- (see www.Jameco.com for specifications)
- · Two-year warranty



# 200-Watt Enclosed With Power Factor Correction

QP-200 Series: Quad Output

- 100% full-load burn-in
- Universal AC input
- Remote sense
- **Power Factor Correction** 105°C output capacitor
- 2.6 watts/in<sup>3</sup> maximum
- Built-in fan cooling
  Mating connector: P/N 103587CH, pg 120
- -10° to +60°C working temperature (see <u>www.Jameco.com</u>)
- Mounting hardware use P/Ns 222148CH, 222156CH, 222181CH & 222172CH (see www.Jameco.com for specifications) c**Al**us ( € CB
- · Three-year warranty



- Input: 88-264VAC@47-63Hz · 105°C output capacitor
- · Mating connector: P/N 103587CH, pg 120
- Working temperature: SP-300: -10° to +60°C; SP-320: -20° to 65° (see www.Jameco.com)
- Mounting hardware: use P/Ns 222156CH, 222130CH, 222181CH & 222172CH (see www.Jameco.com for specifications) • Three-year warranty

	me Power Suppages 150-155.	olies SA	For Complete Specifications	s visit <u>ı</u>	<u>www.Jai</u>	neco.	<u>com</u> .	Call for LOW!	ER Quar	ntity SA	VE
Jameco		Manufacturer	Output		Ripple & Noise	Load	Line	Quantities		Pricing	
Part No.	Manufacturer	Product No.	Voltage@Current (min-max)	Power	(mV p-p)*	Reg. (±%)*	Reg. (±%)*	Certification	1	10	25
202041CH	Mean Well	SP-200-5	+5V@0-40A	200.0W	100	1	0.5	UL/CUL/TUV/CE/CB	\$102.95	\$85.79	\$74.79
194773CH	Mean Well	SP-200-12	+12V@0-16.7A	200.4W	100	0.5	0.5	UL/CUL/TUV/CE/CB	102.95	92.66	83.39
212409CH	Mean Well	SP-200-13.5	+12V@0-16.7A +13.5V@0-14.9A Other Versions	201.1W	100	0.5	0.5	UL/CUL/TUV/CE/CB	102.95	92.66	83.39
202059CH	Mean Well	SP-200-15	+13.5V@0-14.9A +15V@0-13.4A +24V@0-8.4A	201.0W	100	0.5	0.5	UL/CUL/TUV/CE/CB	102.95	92.66	83.39
194781CH	Mean Well	SP-200-24	+24V@0-8.4A	201.6W	150	0.5	0.5	UL/CUL/TUV/CE/CB	102.95	92.66	83.39
202067CH	Mean Well	SP-200-48	+48V@0-4.2A	201.6W	250	0.5	0.5	UL/CUL/TUV/CE/CB	102.95	92.66	83.39
213751CH	Mean Well	QP-200D	+5V@3-15A; +12V@0-4A;	204.9W	100	2	1	UL/CUL/TUV/CE/CB	156.95	127.99	112.99
			+24V@0.4-3A; -12V@0-0.7A								
202083CH	Mean Well	S-240-5	+5V@0-40A	200.0W	150	1	0.5	UL/CUL/TUV/CE/CB	80.05	72.76	66.14
137648CH	Mean Well	S-240-12	+12V@0-18A	216.0W	150	0.5	0.5	UL/CUL/TUV/CE/CB	109.95	98.95	89.09
202075CH	Mean Well	S-240-15	+15V@0-15A	225.0W	150	0.5	0.5	UL/CUL/TUV/CE/CB	94.95	85.46	76.91
137656CH	Mean Well	S-240-24	+24V@0-10A	240.0W	180	0.5	0.5	UL/CUL/TUV/CE/CB	109.95	98.95	89.09
167337CH	Mean Well	S-240-48	+48V@0-5A	240.0W	240	1	1	UL/CUL/TUV/CE/CB UL/CUL/TUV/CE/CB	109.95	98.95	89.09
202091CH	Mean Well	SP-300-5	+5V@0-50A at 230VAC; 0-40A at 115VAC	250.0W	150	1	0.5	UL/CUL/TUV/CE/CB	169.95	144.46	108.34
137390CH	Mean Well	SP-300-12	+12V@0-24A at 230VAC; 0-19.2A at 115VAC	288.0W	150	0.5	0.3	UL/CUL/TUV/CE/CB	181.95	159.70	143.80
212396CH	Mean Well	SP-300-13.5	+13.5V@0-21A at 230VAC; 0-16.8A at 115VAC	285.0W	150	0.5	0.3	UL/CUL/TUV/CE/CB	181.95	154.66	115.99
202104CH	Mean Well	SP-300-15	+15V@0-19A at 230VAC; 0-15.2A at 115VAC	285.0W	150	0.5	0.3	UL/CUL/TUV/CE/CB	181.95	159.70	143.80
137402CH	Mean Well	SP-300-24	+24V@0-12.5A at 230VAC; 0-10A at 115VAC	300.0W	150	0.5	0.2	UL/CUL/TUV/CE/CB	181.95	159.70	143.80
161980CH	Mean Well	SP-300-48	+48V@0-6.25A at 230VAC; 0-5A at 115VAC	300.0W	240	0.5	0.2	UL/CUL/TUV/CE/CB	181.95	154.66	115.99
244734CH	Mean Well	SP-320-5	+5V@0-55A at 230VAC; 0-44A at 115VAC	275.0W	150	1	0.5	UL/CUL/TUV/CE/CB	146.95	132.25	118.99
244742CH	Mean Well	SP-320-12	+12V@0-25A at 230VAC; 0-20A at 115VAC	300.0W	150	0.5	0.3	UL/CUL/TUV/CE/CB	146.95	132.25	118.99
244751CH	Mean Well	SP-320-24	+24V@0-13A at 230VAC; 0-10.4A at 115VAC	312.0W	150	0.5	0.2	UL/CUL/TUV/CE/CB	146.95	132.25	118.99
244769CH	Mean Well	SP-320-48	+48V@0-6.7A at 230VAC; 0-5.4A at 115VAC	321.6W	240	0.5	0.2	UL/CUL/TUV/CE/CB	146.95	132.25	118.99

\* Primary Output

# Commercial **Customers**

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# 320 to 500-Watt Enclosed Switching AC-to-DC Power Supplies

c **FL**us

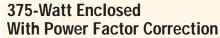
c PALus △ C € CB



### 320-Watt Enclosed

S-320 Series: Single Output

- · 100% full-load burn-in
- · Auto cooling fan
- · No minimum load required
- 4.1 watts/in3 maximum
- · Voltage adj.: 10%
- Two-year warranty
- · 105°C output capacitor
- Input: 88-132/176-264VAC@47-63Hz
- · Mating connector: P/N 103587CH, pg 120
- -10° to +60°C working temperature (see www.Jameco.com)
- · Mounting hardware: use P/Ns 222156CH, 222148CH, 222181CH & 222172CH (see www.Jameco.com)



QP-375 Series: Quad Output

- · 100% full-load burn-in
- · Universal AC input
- · Remote sense function
- 2.8 watts/in³ maximum
- · Auto cooling fan
- · Voltage adj.: 10%
- · 105°C output capacitor
- Input: 88-264VAC@47-63Hz
- Mating connector: P/N 103587CH, pg 120
- -10°C to +60°C working temperature (see www.Jameco.com)
- · Mounting hardware: use P/Ns 222156CH & 222172CH (see www.Jameco.com)

# 480-Watt Enclosed SP-480 Series: Single Output · Universal AC input (see www.Jameco.com)

- -20°C to +60°C working temperature
- · Short circuit/ overload/ over-voltage/ over-temperature function
- · Power Factor Correction
- · Built-in ON-OFF control
- · Remote sense function
- · High power density: 5.18 watts/in3 maximum
- · Active AC surge current limiting

en-Frame Power Supplie

on pages 150-155

- Inrush current: 25A@115VAC Leakage current: <2mA@240VAC
- Size: 10.9"L x 5.0"W x 1.7"H · Three-year warranty

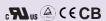
# 500-Watt Enclosed With **Power Factor Correction**

SP-500 Series: Single Output

- 100% full-load burn-in Universal AC input
- 3.6 watts/in3 maximum Remote control
- Auto cooling fan
- · Voltage adj.: 10%
- 105°C output capacitor
   Three-year warranty
- · Power Factor Correction
- · No minimum load required
- Input: 100-240VAC@50-60Hz
- Mating connector: P/N 103587CH pg 120
- · Mounting hardware:use P/Ns 222199CH, 222156CH & 222172CH (see www.Jameco.com)
- -10° to +60°C working temp.(see www.Jameco.com)







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### For Complete Specifications visit www.Jameco.com **Quantity SAVE**

Jameco		Manufacturer	Output		Ripple & Noise	Load Reg.	Line Reg.			Pricing	
Part No.	Manufacturer	Product No.	Voltage@Current (min-max)	Power	(mV p-p)*	(±%)*	(±%)*	Certification	1	10	25
216776CH	Mean Well	S-320-5	+5V@0-50A	250.0W	150	1	0.5	UL/CUL	\$124.95	\$106.21	\$79.66
207212CH	Mean Well	S-320-7.5	+7.5V@0-36A	270.0W	150	0.5	0.5	UL/CUL	124.95	112.80	101.50
207204CH	Mean Well	S-320-12	+12V@0-25A Other Versions	300.0W	150	0.5	0.5	UL/CUL	124.95	112.80	101.50
196656CH	Mean Well	S-320-24	- :lohle: Can	300.0W	150	0.5	0.5	UL/CUL	124.95	112.80	101.50
207191CH	Mean Well	S-320-48	+24V@0-12.5A +48V@0-6.5A	312.0W	240	0.5	0.5	UL/CUL	124.95	112.80	101.50
220302CH	Mean Wello	QP-375-5A	+5V@3.5-30A; +12V@0-10A;	378.0W	100	0.8	0.5	UL/CUL/TUV/CE/CB	194.15	176.49	160.45
			+12V@0-6A; +12V@0-3A								
220281CH	Mean Well <b>⊙</b>	QP-375-5D	+5V@3.5-30A; +12V@0-9A;	378.0W	100	0.8	0.5	UL/CUL/TUV/CE/CB	182.35	165.79	150.69
			+12V@0-4A; +24V@0-3A								
301372CH	Mean Well	SP-480-12	+12V@0-40A at 230VAC; 0-36A at 115VAC	480.0W	120	0.5	0.3	UL/CUL/TUV/CE/CB	293.95	253.68	228.33
301321CH	Mean Well	SP-480-24	+24V@0-20A at 230VAC; 0-18A at 115VAC	480.0W	150	0.5	0.2	UL/CUL/TUV/CE/CB	293.95	253.68	228.33
301401CH	Mean Well	SP-480-48	+48V@0-10A at 230VAC; 0-9A at 115VAC	480.0W	240	0.5	0.2	UL/CUL/TUV/CE/CB	293.95	253.68	228.33
190692CH	Mean Well	SP-500-12	+12V@0-40A at 230VAC; 0-34A at 115VAC	480.0W	240	0.5	0.5	UL/CUL/TUV/CE/CB	249.95	216.10	194.50
212388CH	Mean Well	SP-500-13.5	+13.5V@0-36A at 230VAC; 0-30.6A at 115VAC	486.0W	240	0.5	0.5	UL/CUL/TUV/CE/CB	249.95	212.46	159.34
213604CH	Mean Well	SP-500-15	+15V@0-32A at 230VAC; 0-27.2A at 115VAC	480.0W	240	0.5	0.5	UL/CUL/TUV/CE/CB	239.95	203.96	152.97
147053CH	Mean Well	SP-500-24	+24V@0-20A at 230VAC; 0-17A at 115VAC	480.0W	240	0.5	0.5	UL/CUL/TUV/CE/CB	249.95	216.10	194.50
190705CH	Mean Well	SP-500-27	+27V@0-18A at 230VAC; 0-15.3A at 115VAC	486.0W	200	0.5	0.5	UL/CUL/TUV/CE/CB	249.95	216.10	194.50
161795CH	Mean Well	SP-500-48	+48V@0-10A at 230VAC; 0-8.5A at 115VAC	480.0W	300	0.5	0.5	UL/CUL/TUV/CE/CB	249.95	216.10	194.50

Primary Output Blue Part No. = Limited Quantity Available

# **30-Day Money Back Guarantee**

If you're not completely satisfied with your purchase, simply return the product within 30 days for a refund or exchange. Details on page 258.

		Awesome Pr	rices i	n Pow	er Suț	plies!		
	Jameco Part No.	Comp. Part No.	Comp. Power	Jameco* Price	Newark Price	° Allied° Price		imum Discount
312W	207191CH	Lamda JWS30048	312W	\$124.95	\$394.32	\$438.32	\$269.37	68.3%
600W	220265CH	Omron S82D-6024	600W	\$273.95	_	\$1267.00	\$993.05	78.4%
600W	220265CH	Lambda JWS60024	648W	\$273.95	\$650.31	\$722.88	\$376.36	57.9%
750W	320047CH	Lambda JFS0750-24	750W	\$399.95	\$1112.02	\$1162.96	\$712.07	64.0%
1000W	217357CH	Lambda JFS01000-24	1000W	\$523.95	\$1253.98	_	\$730.03	58.2%
1500W	231722CH	Lambda JFS01500-48	1500W	\$786.95	\$1466.92	_	\$679.97	46.4%

These are single unit prices taken from each party's website on March 17, 2005, and do not include shipping & handling charges, volume discounts or any other discounts. Pricing does fluctuate, so please be sure to check when making purchases.



# 500 to 1500W Enclosed Switching AC-to-DC Power Supplies

500, 1000 & 1500-Watt Enclosed With Power Factor Correction CECB & Current Sharing

PSP-500, PSP-1000 & PSP-1500 Series: Single Output

- · 100% full-load burn-in
- · Voltage adj.: 10%
- · No minimum load required
- 3.6 watts/in3 maximum
- 105°C output capacitors
- Remote sense and control Auto cooling fan
- Universal AC input: 90-264VAC@47-63Hz (PSP-500 and PSP-1000) 176-264VAC@47-63Hz (PSP-1500)
- Parallel operation (current sharing) Mating connector: P/N 103587CH, pg 120 Three-year warranty

c Alus CB

c**91**us CB

- -10° to +60°C working temp. (see www.Jameco.com for output derating)
- Mounting hardware: use P/Ns 222156CH & 222172CH (see www.Jameco.com for specifications)

# 600-Watt Enclosed SE-600 Series: Single Output

- · AC input range switch selectable
- · AC input active surge current limiting
- Inrush current: 30A@115VAC
- Leakage current: <2mA@240VAC</li>
- · Short circuit/overload/over-voltage/over-temperature protection
- -20° to +60°C working temperature (see <u>www.Jameco.com</u>)
- Size: 9.7"L x 5.0"W x 2.5"H Two-year warranty

# 600-Watt Enclosed With Current Sharing SCN-600 Series: Single Output

- · 100% full-load burn-in
  - · Auto cooling fan
- No minimum load required Voltage adjustment: 5%
- 3.7 watts/in3 maximum
- · Two-year warranty Universal AC input: 90-130/180-260VAC@47-63Hz
- · 105°C output capacitor
- · Parallel operation (current sharing)
- Remote sense and control Mating connector: P/N 103587CH, pg 120
- -10° to +65°C working temperature; (+50° to -65°C @ 50% load) (see www.Jameco.com)
- Mounting hardware: use P/Ns 222156CH & 222172CH (see www.Jameco.com for specifications)

# 750-Watt Enclosed With **Power Factor Correction**

SP-750 Series: Single Output

- · 100% full-load burn-in
- · Universal AC input: 88-264VAC@47-63Hz
- · Short circuit / overload / over-voltage protection

MEW

- 105°C output capacitors
- · Withstanding voltage of 300VAC surge input for 5 seconds
- Cooling by free air convection
- · High operating temperature up to 70°C
- · Mating Connector: 103587CH, pg 120
- · Built-in active PFC function, PF>0.95
- · High power density 5.48/inch3
- · Built-in constant current limiting circuit
- · Power good and fail signal output
- · Built-in remote ON-OFF control
- · Built-in remote sense function

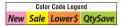


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### For Complete Specifications visit www.Jameco.com. Open-Frame Power Supplies **Quantity SAVE** on pages 150-15 Ripple & Load Line Pricing Jameco Manufacturer Noise Reg. (±%) Reg. (±%) Manufacturer Part No. Voltage@Current (min-max) Power (mV p-p)\* Certification 10 25 Mean Well PSP-500-12 +12V@0-41.5A at 230VAC: 0-33.2A at 115VAC 498.0W 0.5 0.3 UL/CUL/TUV/CF/CB \$269.95 \$232.09 \$216.69 190713CH 150 202121CH Mean Well PSP-500-15 +15V@0-33A at 230VAC; 0-26.4A at 115VAC 498 OW 150 0.5 0.3 UL/CUL/TUV/CE/CB 269.95 229.46 172.09 190721CH Mean Well PSP-500-24 +24V@0-20.8A at 230VAC: 0-16.6A at 115VAC 499.2W 150 0.5 0.2 UL/CUL/TUV/CE/CB 269.95 242.96 218.66 PSP-500-27 Mean Well 0.2 UL/CUL/TUV/CE/CB 229.46 190730CH +27V@0-18.5A at 230VAC: 0-14.8A at 115VAC 499.5W 150 0.5 269.95 172.09 UL/CUL/TUV/CE/CB 190748CH Mean Well PSP-500-48 +48V@0-10.5A at 230VAC: 0-8.4A at 115VAC 504 OW 200 0.5 0.2 269.95 229.46 172.09 291522CH Mean Well SE-600-15 +15V@0-40A 600.0W 150 0.5 0.5 UL/CUL/CB 173.95 156.59 140.89 295902CH Mean Well SE-600-24 24V@0-25A 600.0W 150 0.5 0.5 UL/CUL/CB 173.95 156.59 140.89 295911CH Mean Well SE-600-27 +27V@0-22.2A 599.4W 150 0.5 0.5 UL/CUL/CB 173.95 156.59 140.89 Other Versions Mean Well SF\_600\_48 0.5 UL/CUL/CB 295929CH ±48\/@∩-12 5Δ Available: Call 600 0W 200 0.5 173.95 156.59 140.89 220249CH Mean Well SCN-600-05 +5V@0-100A 500.0W 100 2 0.5 UL/CUL/CB 273.95 213.99 197.99 800-831-4242 SCN-600-12 +12V@0-50A UL/CUL/CB 220257CH Mean Well 600 0W 120 1 0.5 273.95 213.99 197.99 220265CH Mean Well SCN-600-24 +24V@0-25A 600.0W 240 1 0.5 UL/CUL/CB 273.95 213.99 197.99 SP-750-12 UL/CUL/TUV/CE/CB 319943CH Mean Well +12V@0-62.5A 750.0W 120 2 0.5 399.95 359.95 323.95 320047CH Mean Well SP-750-24 +24V@0-31.3A 750.0W 120 0.5 0.2 UL/CUL/TUV/CE/CB 399.95 359.95 323.95 320055CH Mean Well SP-750-48 +48V@0-15.7A 750.0W 120 0.5 0.2 UL/CUL/TUV/CE/CB 399.95 359.95 323.95 217373CH Mean Well PSP-1000-5 +5V@0-145A at 230VAC; 0-123.3A at 115VAC 725.0W 100 0.5 UL/CUL/TUV/CE/CB 499.95 424.96 318.72 2 217365CH Mean Well PSP-1000-12 +12V@0-75A at 230VAC; 0-63.8A at 115VAC 900.0W 150 0.5 0.3 UL/CUL/TUV/CE/CB 523.95 445.36 334.02 334.02 Mean Well PSP-1000-13.5 +13.5V@0-67A at 230VAC: 0-57.8A at 115VAC 1000.0W 150 0.5 0.3 UL/CUL/TUV/CF/CB 523.95 445.36 231642CH 231634CH Mean Well PSP-1000-15 +15V@0-60A at 230VAC; 0-51A at 115VAC 900.0W 150 0.5 0.3 UL/CUL/TUV/CE/CB 523.95 445.36 334.02 217357CH Mean Well PSP-1000-24 +24V@0-37.6A at 230VAC; 0-32A at 115VAC 0.5 0.2 UL/CUL/TUV/CE/CB 523.95 445.36 334.02 902.4W 150 231651CH Mean Well PSP-1000-27 +27V@0-33.6A at 230VAC; 0-28.6A at 115VAC 907.2W 150 0.5 0.2 UL/CUL/TUV/CE/CB 523.95 445.36 334.02 Mean Well PSP-1000-48 +48V@0-19A at 230VAC; 0-16.2A at 115VAC 0.2 UL/CUL/TUV/CE/CB 217349CH 912.0W 200 0.5 523.95 442.19 402.59 231669CH Mean Well PSP-1500-5 +5V@0-217.5A 1087.5W 100 2 0.5 UL/CUL/TUV/CE/CB 786.95 668.91 501.68 UL/CUL/TUV/CE/CB \$786.95 699.95 231693CH Mean Well PSP-1500-15 +15V@0-90 0A 1350.0W 150 0.5 0.3 594.96 446.22 231714CH Mean Well PSP-1500-27 +27V@0-50.4A 1360.8W 150 0.5 0.2 UL/CUL/TUV/CE/CB 786.95 663.25 619.25 PSP-1500-48 663.25 231722CH Mean Well +48V@0-28.5A 1368.0W 200 0.5 0.2 UL/CUL/TUV/CE/CB 786.95 619.25

Primary Output



248735CH

# DIN-Rail Switching AC-to-DC Power Supplies

Color Code Legend Sale Lower\$ QtySave

# DIN-Rail Switching Power Supplies

- · Low cost, high reliability · Universal AC input range Soft-start circuit, limiting AC surge current
- · Short-circuit, overload, over-voltage protected 100% full-load burn-in test
- · For DIN-Rail terminal blocks see page 119











			F-9- · · ·	1	92698CH	212273CH	212290CH	221891CH		2526620	Н
Part No.	Product No.	Power (W)	Output Volts@Current	Input Voltage (VAC @ Hz/VDC)	Input Current @	Maximum Load	Size (L" x W" x H")	Wt. (lbs.)	1	10	25
212302CH	DR-4505	25	5VDC @ 5A	85-264 @ 47-63/120-370	1.5A(115V)/7	50mA(230V)	3.0 x 2.6 x 3.6	0.9	\$45.95	\$35.19	\$32.99
192698CH	DR-4512	42	12VDC @ 3.5A	85-264 @ 47-63/120-370	1.5A(115V)/7	50mA(230V)	3.0 x 2.6 x 3.6	0.7	45.95	35.19	32.99
221874CH	DR-4515	42	15VDC @ 2.8A	85-264 @ 47-63/120-370	1.5A(115V)75	0mA(230V)	3.0 x 2.6 x 3.6	0.9	45.95	35.19	32.99
192680CH	DR-4524	48	24VDC @ 2A	85-264 @ 47-63/120-370	1.5A(115V)/7	50mA(230V)	3.0 x 2.6 x 3.6	0.7	45.95	35.19	32.99
212290CH	DR-7512	75	12VDC @ 6.3A	85-264 @ 47-63/120-370	2.0A(115V)/1.	2A(230V)	3.9 x 2.1 x 4.9	1.2	73.95	56.09	51.69
212281CH	DR-7524	75	24VDC @ 3.2A	85-264 @ 47-63/120-370	2.0A(115V)/1.	2A(230V)	3.9 x 2.1 x 4.9	1.2	73.95	56.09	51.69
221866CH	DR-7548 <b>©</b>	75	48VDC @ 1.6A	85-264 @ 47-63/120-370	2.0A(115V)/1.	2A(230V)	3.9 x 2.1 x 4.9	1.2	\$48 <sup>.85</sup> 41.95	38.11	34.64
212273CH	DR-12012	120	12VDC @ 10A	88-132/176-264* @ 47-63	2.8A(115V)/1.	7A(230V)	2.6 x 3.9 x 4.9	1.4	85.95	64.89	60.49
212265CH	DR-12024	120	24VDC @ 5A	88-132/176-264* @ 47-63	2.8A(115)/1.7	A(230V)	2.6 x 3.9 x 4.9	1.4	85.95	64.89	60.49
221903CH	DR-12048	120	48VDC @ 2.5A	88-132/176-264 <sup>*</sup> @ 47-63	2.8A(115V)/1.	7A (230V)	2.6 x 3.9 x 4.9	1.4	76.95	69.26	62.33
221891CH	DRP-24024 <sup>†</sup>	240	24VDC @ 10A	85-264 @ 47-63/120-370	3.5A (115V)/1	.8A(230V)	3.9 x 4.9 x 4.9	2.4	156.95	112.19	104.49
221882CH	DRP-24048 <sup>†</sup>	240	48VDC @ 5.0A	85-264 @ 47-63/120-370	3.5A(115V)/1	.8A(230V)	3.9 x 4.9 x 4.9	2.4	156.95	141.26	127.13
252662CH	DRP-48024 <sup>†</sup>	480	24VDC @ 20.0A	180-264 @ 47-63/25-370	4.0A(230V)		8.9 x 3.9 x 4.9	4.6	218.95	207.99	197.60
252654CH	DRP-48048 <sup>†</sup>	480	48VDC @ 10.0A	180-264 @ 47-63/25-370	4.0A(230V)		8.9 x 3.9 x 4.9	4.6	218.95	207.99	197.60
295937CH	DRP-480S-24 <sup>†</sup>	480	24VDC @ 20.0A	90-132/180-264* @ 47-63/254-370	11.0A(115V)/-	4.0A(230V)	8.9 x 3.9 x 4.9	4.6	225.35	215.03	204.28
301305CH	DRP-480S-48 <sup>†</sup>	480	48VDC @ 10.0A	90-132/180-264* @ 47-63/254-370	11.0A(115V)/-	4.0A(230V)	8.9 x 3.9 x 4.9	4.6	225.35	215.03	204.28

<sup>\*</sup>Switch selectable † With Power Factor Correction 



# Linear AC-to-DC Power Supplies

# 13.8VDC Precision Regulated Power Supplies

Prepunched

· Output voltage: 13.8VDC

2094.0

- · Heavy duty 5'8" 3-prong power cord
- Short-circuit protection
- Input voltage: 115VAC @ 60Hz Illuminated rocker switch
- Fuse protected
- · Output mating terminals: see page 121 for cigarette plugs & page 221 for banana terminal plugs



136581CH **Banana** terminal





Part No.	Model No.	Power (W)	Output Current (A)	Output Terminals	Size (L" x W" x H")	Wt. (lbs.)	1	10	25
135845CH	RPS1204	55.2	4	Banana terminals / cigarette plug	6.7 x 5.2 x 3.2	5.5	\$29.95	\$26.95	\$23.95
136581CH	RPS1207 <sup>†</sup>	96.6	7	Banana terminals	8.7 x 5.7 x 3.6	8.5	59.95	53.95	48.95
138667CH	38-381	138.0	10	Banana terminals (rear)	7.0 x 6.6 x 4.3	10.0	69.95	62.95	56.95
138675CH	52-192012	276.0	20	Banana terminals	10.0 x 7.8 x 4.4	15.9	109.95	99.95	89.95

<sup>†</sup> P/N 136581CH includes overheating protection

### **ACDC Electronics**

### 45-Watt Linear Power Supply · Output connector: solder studs

 Input connector: 0.173" solder terminals Part No. Input Voltage Product No. Output Voltage Weiaht 10 25 214615CH ECV15N3€ 15V @ 3A 115VAC @ 50-60Hz 5.6"L x 5.0"W x 3.0"H 4.0 lbs. \$5.45 \$4.95 \$4.50

➡ Blue Part No. = Limited Quantity Available



# We're Listening to What You Need



Our goal is to provide you with more of what you want. Let us know how we can better serve your electronics needs.

Please send requests to info@Jameco.com.



# **Reducing Inducing**

Remember when you learned about antenna theory? The idea is simple... put a conductor in a fluxing B-field and you get a current through the conductor.

Well, for those of us who enjoyed radio and other analog circuits, that was great. But most of us think digital and we forget about the power (positive or negative) of induction.

For instance, does your design employ long leads to a DC power source? Spare yourself the hassle of developing elaborate power filters and simply use a Point Of Load DC-to-DC converter like the ones on the right page. They're inexpensive, designed to last, and accept a broad range of input voltages.

> Practical Practices Money Saving Tips for the Engineer



# 6 to 30-Amp Non-Isolated, Point-of-Load DC-to-DC Converters

# 6-Amp SIL06C Series

- dI/dt: 10A/µs
- 100% burn-in test
- · No minimum load
- · Remote ON/OFF · Ultra-wide trim range
- "Power good" signal
- Planar magnetics technologyProtection: over-current & short-circuit
- Working temperature: 0° to +80°C (derated above 50°C)
   219168CH

ARTESYN

ARTES**Y**N

219150CH

· Very high MTBF

Two-year warranty

c Allus (A)



- dI/dt: 10A/µs
- 100% burn-in test
- · No minimum load
- Remote sense · Two-year warranty
- Remote ON/OFF
- · 96% efficiency at 3.3V
- Highest power density: 107W/in³
- Planar magnetics technology · Protection: thermal & short-circuit
- Working temperature: -40° to +100°C (derated above 70°C)

· Very high MTBF



	Manufacturer		Output		Size Inches		Line Reg.	Load Reg.	Temp.	Efficiency	MTBF	Jameco		Pric	е	
Mfr.	Product Number	Input Range	Voltage@Current	Power	(LxWxH)	Pins	(±%)	(±%)	.c.	(%)	(hours)	Part No.	1	10	25	100
Artesyn	SIL06C-05SADJ-Vo	4.5V-5.5V	0.9-3.3V@6A	20W	1.2x0.6x0.07	8	0.2	0.5	0 to +80	89	1,300,000	219150CH <sup>\$</sup>	9.45 \$8.39	\$7.98	\$7.58	\$7.20
Artesyn	SIL06C-05SADJ-H <b>⊙</b>	4.5V-5.5V	0.9-3.3V@6A	20W	1.2x0.6x0.53	8	0.2	0.5	0 to +80	89	1,300,000	219168CH	9.43 8.39	7.98	7.58	7.20
Artesyn	SIL10E-05S1V8-Vo	3.0V-5.5V	1.8V@10A	18W	2.0x0.5x0.31	11	1.0	1.0	-40 to +100	92	7,042,000	219141CH	16.29	15.47	14.69	13.96
Artesyn	SIL10E-05S2V5-Vo	3.0V-5.5V	2.5V@10A	25W	2.0x0.5x0.31	11	1.0	1.0	-40 to +100	94	7,042,000	219133CH	17.93	15.47	14.69	13.96
Artesyn	SIL10E-05W3V3-V	4.5V-5.5V	0.8-3.6V@10A	33W	2.0x0.5x0.31	11	1.0	1.0	-40 to +100	95	7,042,000	219117CH	17.99	15.47	14.69	13.96
Artesyn	SIL10E-05S3V3-V <b>⊙</b>	4.5V-5.5V	3.3V@10A	33W	2.0x0.5x0.31	11	1.0	1.0	-40 to +100	95	7,042,000	219125CH <sup>\$</sup>	16.29	15.47	14.69	13.96

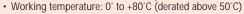
Blue Part No. = Limited Quantity Available

# 15-Amp SIL15C Series

- dl/dt: 10A/µs
- · 100% burn-in test
- · No minimum load
- · Remote ON/OFF Two-year warranty
- Ultra-wide trim range · Protection: over-current & short-circuit
- Working temperature: 0° to +80°C (derated above 50°C)

# 30-Amp SIL30C Series

- dI/dt: 10A/µs
- 100% burn-in test No minimum load
- Two-year warranty
- Horizontal & vertical models
   Ultra-wide trim range





	Manufacturer		Output		Size Inches		Line Rea.	Load Reg.	Temp.	Efficiency	Jameco		Pric	e	
Mfr.		Input Range	Voltage@Current	Power	(LxWxH)	Pins	(±%)	(±%)	.C	(%)	Part No.	1	10	25	100
Artesyn	SIL15C-05SADJ-Vo	4.5V-5.5V	0.9V-3.3V@15A	50W	1.20x1.10x0.40	13	0.2	0.5	0 to +80	89	218886CH-\$	<sup>13.49</sup> \$11.45	\$10.89	\$10.35	\$9.83
Artesyn	SIL15C-12SADJ-V	10.2V-13.8V	0.9V-5V@15A	75W	1.20x1.10x0.40	13	0.2	0.5	0 to +80	91	218878CH	16.65	15.19	13.74	12.29
Artesyn	SIL30C-12SADJ-Vo	10.2V-13.8V	0.9V-5V@30A	150W	2.40x1.25x0.47	24	0.2	1.0	0 to +80	91	218860CH	<sup>19.95</sup> 17.59	16.73	15.89	15.10

# 0.5 to 5-Watt Isolated DC-to-DC Converters

# 0.5 & 1-Watt Regulated & Unregulated Encapsulated

- 1000VDC isolation
- Input filter: capacitor type
- · Protection: short-circuit
- 100% burn-in test

For Complete Specifications visit www.Jameco.com.

- Working temp.: -15 to +60°C One-year warranty
- · No external components needed



### 3 & 5-Watt Regulated Encapsulated • Input filter: Pi network

- 1000VDC isolation
- · 2:1 wide input range
- Shielded metal case
- · 100% burn-in test · One-year warranty
- Working temperature: -15 to +60°C
- · No external components needed
- · Protection: short-circuit & overload

Jameco	Manufacturer		Output		Size Inches		Line Reg.	Load Reg.	Ripple & Noise		Pri	ce	
Part No.	Product Number	Input Range	Voltage@Current	Power	(LxWxH)	Pins		(±%)	(mV p-p)	1	10	25	100
213225CH	SRS-0505	4.5-5.5V	+5V@100mA	0.5W	0.88x0.39x0.33	8	1.0	1.0	100	\$5.39	\$4.91	\$4.46	\$4.08
216830CH	SPR01L-12	4.5-5.5V	+12V@84mA	1W	0.77x0.28x0.4	4	1.0	1.0	100	8.95	8.06	7.25	6.52
213268CH	SCW03A-05	9-18V	+5V@600mA	3W	1.25x0.8x0.48	10	1.0	0.5	100	15.49	13.95	12.59	11.29
155918CH	DCW03A-05	9-18V	+5V@300mA; -5V@300mA	3W	1.25x0.8x0.48	10	1.0	0.5	100	20.95	18.89	16.99	15.29
161701CH	DCW03A-12	9-18V	+12V@125mA; -12V@125mA	3W	1.25x0.8x0.48	10	1.0	0.5	100	20.95	18.89	16.99	15.29
220388CH	SLW05L-12	4.5-9V	+12V@417mA	5W	2x1x0.44	5	0.2	0.5	100	24.95	22.49	20.25	18.25
220353CH	SLW05A-033	9-18V	+3.3V@1500mA	5W	2x1x0.44	5	0.2	0.5	100	19.95	17.95	16.16	14.54
216928CH	SLW05A-05	9-18V	+5V@1000mA	5W	2x1x0.44	5	1.0	0.2	100	24.95	22.49	20.25	18.25
216881CH	SLW05A-15	9-18V	+15V@333mA	5W	2x1x0.44	5	1.0	0.2	100	24.95	22.49	20.25	18.25
216936CH	SLW05B-05	18-36V	+5V@1000mA	5W	2x1x0.44	5	1.0	0.2	100	24.95	22.49	20.25	18.25
216910CH	SLW05B-12	18-36V	+12V@417mA	5W	2x1x0.44	5	1.0	0.2	100	21.95	19.76	17.78	16.00
216864CH	DLW05B-12	18-36V	+12V@208mA; -12V@208mA	5W	2x1x0.44	5	0.2	0.2	100	24.95	22.46	17.96	13.47
213233CH	SLW05C-05	36-72V	+5V@1000mA	5W	2x1x0.44	5	1.0	0.2	100	17.25	15.50	13.95	12.56

# **Lowest Price Guarantee**

Found a product at allower print advertised price? We'll beat that price by 10% right down to our cost!



# 10-Watt Encapsulated

- Isolation voltage: 1000VDC
- 2:1 wide input range
- Working temperature: -15 to +60°C
- Free-air convection cooling
- · Input filter: Pi-network
- Shielded metal case
- · Industry standard package One-year warranty
- · 100% burn-in test
- · Protection: short-circuit & overload









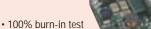
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Jameco	Manufacturer		Output		Size Inches		Line Reg.	Load Reg.	Ripple & Noise		Pri	ce	
Part No.	Product Number	Input Range	Voltage@Current	Power	(LxWxH)	Pins	(±%)	(±%)	(mV p-p)	1	10	25	100
216961CH	SKE10A-05	9-18V	+5V@2000mA	10W	2x1x0.44	5	0.3	1.0	50	\$33.95	\$30.55	\$26.95	\$24.55
216979CH	SKE10A-15	9-18V	+15V@666mA	10W	2x1x0.44	5	0.3	1.0	60	33.95	30.56	24.44	18.33
220337CH	SKE10B-033	18-36V	+3.3V@2400mA	8W	2x1x0.44	5	0.3	0.5	50	33.95	30.56	24.44	18.33
216952CH	SKE10B-05	18-36V	+5V@2000mA	10W	2x1x0.44	5	0.3	0.5	50	33.95	30.55	26.95	24.55
217023CH	SKE10B-12	18-36V	+12V@840mA	10W	2x1x0.44	5	0.3	0.5	60	29.95	26.96	21.56	16.17
220345CH	SKE10C-033 <b>⊙</b>	36-72V	+3.3V@2400mA	8W	2x1x0.44	5	0.3	0.5	50	21.49	19.54	17.76	16.15
216944CH	SKE10C-05	36-72V	+5V@2000mA	10W	2x1x0.44	5	0.3	1.0	50	33.95	30.56	24.44	18.33
216987CH	SKE10C-15 <b>⊙</b>	36-72V	+15V@666mA	10W	2x1x0.44	5	0.3	1.0	60	18.99	17.29	15.71	14.28
217031CH	DKE10A-05	9-18V	+5V@1000mA; -5V@1000mA	10W	2x1x0.44	5	0.3	0.5	50	34.95	31.46	25.16	18.87
217091CH	DKE10A-12	9-18V	+12V@420mA; -12V@420mA	10W	2x1x0.44	5	0.3	0.5	60	34.95	31.45	27.95	25.45
217111CH	DKE10A-15	9-18V	+15V@333mA; -15V@333mA	10W	2x1x0.44	5	0.3	0.5	60	34.95	31.45	27.95	25.45
217058CH	DKE10B-05 <b>⊙</b>	18-36V	+5V@1000mA; -5V@1000mA	10W	2x1x0.44	5	0.3	0.5	50	20.35	18.51	16.82	15.29
217074CH	DKE10B-15	18-36V	+15V@333mA; -15V@333mA	10W	2x1x0.44	5	0.3	0.5	60	34.95	31.45	27.95	25.45
217040CH	DKE10C-05 <b>⊙</b>	36-72V	+5V@1000mA; -5V@1000mA	10W	2x1x0.44	5	0.3	0.5	50	_20.35	18.51	16.82	15.29
217103CH	DKE10C-12	36-72V	+12V@420mA; -12V@420mA	10W	2x1x0.44	5	0.3	0.5	60 \$3	<sup>4.95</sup> 21.99	20.04	18.22	16.56
217066CH	DKE10C-15 <b>⊙</b>	36-72V	+15V@333mA; -15V@333mA	10W	2x1x0.44	5	0.3	0.5	60	20.35	18.51	16.82	15.29

### 10-Watt Open Frame CXA10 Series: Single Output

- · Isolation voltage: 1500VDC
- · Industry standard footprint
- Remote ON/OFF
- 4:1 input voltage range
- · Protection: short-circuit & overload

15-Watt Encapsulated · Isolation voltage: 1000VDC

• Working temp.: -40 to +100°C (see www.Jameco.com)



ARTES







# 15-Watt Open Frame

- · Isolation voltage: 1500VDC
- Industry standard footprint Remote ON/OFF
- No minimum load
- Two-year warranty Protection: over-voltage & over-current
- Working temperature: -40° to +65°C
- Output trim



c **Al**us (A) ( E

• 100% burn-in test



Output trim

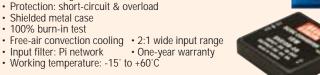
· Industry standard footprint · Remote ON/OFF

 100% burn-in test · No minimum load

• 4:1 input voltage range Two-year warranty

Protection: over-voltage, over-temperature & short-circuit

Working temperature: -40° to +60°C (see www.Jameco.com)





Jameco	Manufacturer		Output		Size Inches		Line Reg.	Load Reg.	Ripple & Noise	SAL	Pri	ce	
Part No.	Product Number	Input Range	Voltage@Current	Power	(LxWxH)	Pins	(±%)	( ±%)	(mV p-p)	1	10	25	100
219037CH	CXA10-48S3V3	18-75V	+3.3V@2400mA	7.9W	2x1x0.54	6	0.1	0.2	30 \$34	8 <sup>5</sup> \$25.55	\$24.29	\$23.07	\$21.92
219045CH	CXA10-48S050	18-75V	+5.0V@2000mA	10W	2x1x0.54	6	0.1	0.2	30 \$36	<sup>49</sup> 25.55	24.29	23.07	21.92
219070CH	CXE15-48S1V8	33-75V	+1.8V@6000mA	10.8W	2x1x0.35	6	0.3	2.0	40 \$37	24.69	23.48	22.31	21.19
219088CH	CXE15-48S2V5 <b>⊙</b>	33-75V	+2.5V@6000mA	15W	2x1x0.35	6	0.3	1.5	40 \$37	24.69	23.48	22.31	21.19
219053CH	CXE15-48S3V3 <b>⊙</b>	33-75V	+3.3V@4500mA	15W	2x1x0.35	6	0.1	0.5	70 \$36		23.48	22.31	21.19
219061CH	CXE15-48S05V <b>⊙</b>	33-75V	+5V@3000mA	15W	2x1x0.35	6	0.1	0.5	70 \$36	<sup>15</sup> 24.69	23.48	22.31	21.19
155715CH	SKE15A-05	9-18V	+5V@3000mA	15W	2x2x0.43	5	0.3	0.5	50	34.95	31.49	28.15	25.35
155707CH	SKE15A-12	9-18V	+12V@1250mA	15W	2x2x0.43	5	0.3	0.5	60	34.95	31.19	28.15	25.35
155694CH	SKE15A-24	9-18V	+24V@625mA	15W	2x2x0.43	5	0.3	0.5	80	34.95	31.49	28.15	25.35
213276CH	SKE15B-05	18-36V	+5V@3000mA	15W	2x2x0.43	5	0.3	0.5	50	34.95	31.49	28.15	25.35
213284CH	SKE15B-12	18-36V	+12V@1250mA	15W	2x2x0.43	5	0.3	0.5	60	34.95	31.49	28.15	25.35
161728CH	DKE15A-12	9-18V	+12V@625mA; -12V@625mA	15W	2x2x0.43	5	0.3	0.5	60	35.95	32.35	29.15	24.25
213292CH	DKE15A-24	9-18V	+24V@313mA; -24V@313mA	15W	2x2x0.43	5	0.3	0.5	80	32.95	29.69	26.90	24.05
217154CH	DKE15C-15 <b>⊙</b>	36-72V	+15V@500mA; -15V@500mA	15W	2x2x0.43	5	0.3	0.5	60	19.69	17.89	16.26	14.79
219109CH	CXA20-48S3V3	18-75V	+3.3V@6000mA	19.8W	2x1.6x0.41	8	0.1	0.2	75 <b>\$41</b>	<sup>55</sup> 35.49	33.73	32.04	30.44

20.0W

219096CH CXA20-48S05 Blue Part No. = Limited Quantity Available

# **Free Technical Support**

18-75V

+5V@4000mA

Our knowledgeable Tech Support department is ready to answer your questions. Just call us!

75 \$45 65 35.49

2x1 6x0 41

# 20-Watt Encapsulated

- Isolation voltage: 1000VDC
- Output trim
- · Free-air convection cooling
- · One-year warranty
- Working temp.: -40° to +71°C
- · Industry standard package
- 100% burn-in test







										JALE	/		
Jameco	Manufacturer		Output		Size Inches		Line Rea.	Load Reg.	Ripple & Noise		Pri	ce	
Part No.	Product Number	Input Range	Voltage@Current	Power	(LxWxH)	Pins	(±%)	( ±%)	(mV p-p)	1	10	25	100
217630CH	DKB20A-05	9-18V	+5V@2000mA; -5V@2000mA	20W	1.2x2x0.82	8	0.2	0.2	100	\$44.95	\$40.49	\$36.45	\$32.79
217621CH	DKB20A-15	9-18V	+15V@667mA; -15V@667mA	20W	1.2x2x0.82	8	0.2	0.2	100	33.09	30.07	27.34	24.85
217592CH	DKB20B-12 <b>⊙</b>	18-36V	+12V@833mA; -12V@833mA	20W	1.2x2x0.82	8	0.2	0.2	100 \$32	99 25.69	24.40	23.18	22.02
217605CH	DKB20B-15 <b>⊙</b>	18-36V	+15V@667mA; -15V@667mA	20W	1.2x2x0.82	8	0.2	0.2	100	33.05	30.00	27.27	24.79
217576CH	DKB20C-12 <b>⊙</b>	36-72V	+12V@833mA; -12V@833mA	20W	1.2x2x0.82	8	0.2	0.2	100 \$33	<sup>09</sup> 25.89	24.60	23.37	22.20
217613CH	DKB20C-15 <b>⊙</b>	36-72V	+15V@667mA; -15V@667mA	20W	1.2x2x0.82	8	0.2	0.2	100 \$33	<sup>09</sup> 25.89	24.60	23.37	22.20
217648CH	TKB20C-B	36-72V	+5V@2500mA; ±12V@310mA	20W	1.2x2x0.82	8	0.2	0.2	100	37.79	33.99	31.25	29.89

Shielded metal case

· Input filter: Pi network

· Protection: short-circuit & overload

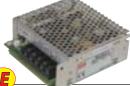
### 25-Watt Enclosed

- Isolation voltage: 500VDC
- 2:1 wide input range
- Working temperature: -10° to +60°C
- · Input filter: Pi-network
- Shielded metal case
- 100% burn-in test
- Protection: short-circuit, overload and over-voltage
- · Free-air convection cooling · 105°C output capacitor
- One-year warranty









Jameco	Manufacturer		Output		Size Inches		Line Reg.	Load Reg.	Ripple & Noise		Pri	ce	
Part No.	Product Number	Input Range	Voltage@Current	Power	(LxWxH)	Pins	(±%)	( ±%)	(mV p-p)	1	10	25	100
175661CH	SD-25A-5	9-18V	+5V@5000mA	25W	see www.Jameco.com	5	0.5	0.5	100	\$40.95	\$30.99	\$28.99	\$24.99
175804CH	SD-25A-12	9-18V	+12V@2100mA	25.2W	see www.Jameco.com	5	0.3	0.3	120	37.95	34.16	27.32	20.49
175812CH	SD-25A-24	9-18V	+24V@1100mA	26.4W	see www.Jameco.com	5	0.2	0.2	150	40.95	30.99	28.99	24.99

### 30-Watt Encapsulated

- Isolation voltage: 1000VDC
- · Protection: short-circuit & overload
- Shielded metal case
- Working temperature: -40° to +71°C
- · Input filter: Pi-network
- 2:1 wide input range
- Remote ON/OFF
- Output trim

- · Switching frequency: 100kHz
- 100% burn-in test
- · One-year warranty







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Jameco	Manufacturer		Output		Size Inches		Line Reg.	Load Reg.	Ripple & Noise		Pri	ce	
Part No.	Product Number	Input Range	Voltage@Current	Power	(LxWxH)	Pins	(±%)	( ±%)	(mV p-p)	1	10	25	100
218544CH	DKA30B-12 <b>⊙</b>	18-36V	±12V@1250mA	30W	2x2x0.82	8	0.2	0.2	100 <del>\$40</del>	<sup>55</sup> \$32.99	\$30.01	\$27.28	\$24.80
217699CH	DKA30C-12 <b>⊙</b>	36-72V	±12V@1250mA	30W	2x2x0.82	8	0.2	0.2	100	32.99	29.99	27.28	24.80
217681CH	TKA30C-BO	36-72V	+5V@3500mA+12V@310mA	25W	2x2x0.82	8	0.2	0.2	100	35 39	32 15	29 23	26 57

Blue Part No. = Limited Quantity Available

### 30-Watt Encapsulated

- Isolation voltage: 1000VDC
- 2:1 wide input range
- Working temperature: -25° to +85°C
   · 100% burn-in test
- · Input filter: Pi-network Shielded metal case
- · Protection: short-circuit, overload & over-voltage
- · Output trim · Remote ON/OFF
- · One-year warranty



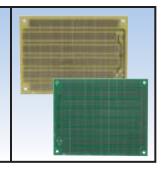




Jameco	Manufacturer		Output		Size Inches		Line Reg.	Load Reg.	Ripple & Noise		Pri	ce	
Part No.	Product Number	Input Range	Voltage@Current	Power	(LxWxH)	Pins	(±%)	( ±%)	(mV p-p)	1	10	25	100
217234CH	SDM30-12S12	9-18V	+12V@2100mA	25.2W	2x1.8x0.62	8	1.0	1.0	100	\$34.95	\$31.77	\$28.88	\$26.26
217242CH	SDM30-24S12	18-36V	+12V@2500mA	30W	2x1.8x0.62	8	1.0	1.0	100	45.95	41.35	37.25	33.55
217226CH	SDM30-48S05 <b>≎</b>	36-72V	+5V@5000mA	25W	2x1.8x0.62	8	1.0	1.0	100	26.55	24.12	21.93	19.93
217197CH	SDM30-48S15 <b>⊙</b>	36-72V	+15V@2000mA	30W	2x1.8x0.62	8	1.0	1.0	100	24.79	22.53	20.48	18.62

# See Our Selection of Prototyping **PC Boards**

on pages 245-247



# Order Anytime, Day or Night

Our friendly sales department will take your order 24x7x365 by phone, fax, web or email.



# 60-Watt Open Frame

- Isolation voltage: 1500VDC
- 100% burn-in test
- · Remote ON/OFF
- Working temperature: -40 to +100°C
- · No minimum load · Output trim

Two-year warranty

• 100% burn-in test

Free-air convection cooling

The EXQ60 delivers very high output current at low voltages, and excellent useable power density for today's high-end applications. The models offered feature an input voltage range of 33 to 75VDC and are available in output voltages of 2.5V/3.3V and 3.3V/5V. The output voltage on each model is adjustable from 90% to 110% of the nominal value. Typical efficiencies for the models are 90% for the 2.5V/3.3V and 91% for the 3.3V/5V versions. Over-current and over-voltage protection features are included as standard. With full international safety approval including EN60950 and UL1950, the EXQ60 reduces compliance cost and time to market.



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rice			

Jameco	Manufacturer		Output		Size Inches		Ripple & Noise		Pri	ce	
Part No.	Product Number	Input Range	Voltage@Current	Power	(LxWxH)	Pins	(mV p-p)	1	10	25	100
218894CH	EXQ60-48D3V3-2V5-R <b>⊙</b>	33-75V	+2.5V@16A; +3.3V@12A	40W	2.3x1.5x0.5	7	60 \$110	<sup>05</sup> \$76.99	\$73.23	\$69.57	\$66.09
218907CH	EXQ60-48D05-3V3-R <b>☉</b>	33-75V	+3.3V@15A; +5V@12A	60W	2.3x1.5x0.5	7	60 <b>\$10</b> 9	95 76.99	73.23	69.57	66.09

➡ Blue Part No. = Limited Quantity Available

# 50, 100 & 150-Watt Enclosed

· Protection: short-circuit, over-current & over-voltage

- Isolation voltage: 1500VDC
- One-year warranty
- · 2:1 wide input range

- 105°C output capacitor
- Input filter: Pi-network Shielded metal case
- Working temperature: -10° to +60°C
- · Protection: short-circuit, overload & over-voltage Mounting hardware: use P/Ns 222156CH & 222172CH; see www.Jameco.com for specifications



**Quantity SAVE** 



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Jameco	Manufacturer		Output		Size Inches		Rea.	Reg.	& Noise		Pri	ce	
Part No.	Product Number	Input Range	Voltage@Current	Power	(LxWxH)	Pins	(±%)	( ±%)	(mV p-p)	1	10	25	100
212548CH	SD-50A-5	9-18V	+5V@10A	50W	see www.Jameco.com	5	0.5	0.5	100	\$35.79	\$32.53	\$29.58	\$26.89
212530CH	SD-50B-12	19-36V	+12V@4.2A	50.4W	see www.Jameco.com	5	0.3	0.3	120	51.95	46.76	37.40	28.05
212513CH	SD-50B-24	19-36V	+24V@2.1A	50.4W	see www.Jameco.com	5	0.2	0.2	150	35.79	32.21	25.77	24.15
212505CH	SD-50C-12	36-72V	+12V@4.2A	50.4W	see www.Jameco.com	5	0.3	0.3	120	51.95	39.99	36.99	32.99
216565CH	SD-100B-12	19-36V	+12V@8.5A	102W	see www.Jameco.com	7	0.3	0.3	120	72.95	65.66	52.52	39.39
212468CH	SD-100C-12	36-72V	+12V@8.5A	102W	see www.Jameco.com	7	0.3	0.3	120	63.95	53.99	50.99	44.99
217269CH	SD-150B-12	19-36V	+12V@12.5A	150W	see www.Jameco.com	7	0.5	0.5	120	82.95	74.66	59.72	44.79

# AC-to-DC Regulated Switching Table-Top Power Supplies

We will change any power plug (pg 121) on any table-top power supply (100 pc. minimum) (I) (A) (B) (E) (E





ē					Output i		Output Connector							,			
Power	Part		Mfr. Cross	Pwr	Volts (VDC)/	Input	ID x OD/Polarity	Pwr.		Size	Cords*	Wt.	Agency		Pric	ing	
Ъ	Number	Brand 🔺	Ref. No. 🔺	(W)	Current (A)	VAC@Hz	F = female; M = male	Ind.	Color	(L" x W" x H")	(DC/AC)	(lbs.)	Approvals	1	10	50	100
						2-Wire A	C Input – Regula	ited	Switc	hing							
	221591CH	Mean Well	P30B-OP2JU	12	+3.3/3.6	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.8	UL/CUL/TUV/CE	\$17.79	\$16.17	\$14.70	\$13.36
	237059CH	Cisco	ADP-12GB	12.5	+5/2.5	100-240@50-60	2.5mm x 5.5mm F 2	No	Black	3.5 x 2.3 x 1.2	6'/ <sup>3</sup>	0.6	UL/CUL/TUV/CE	14.95	13.49	12.15	10.89
	249050CH	Phihong	PSA15W-050	12.5	+5/2.5	100-240@50-60	2.5mm x 5.5mm F 2	No	Black	4.3 x 2.6 x 1.0	6'/ <sup>3</sup>	0.4	UL/CSA/TUV/CE	19.49	17.75	16.39	14.55
Ħ	211300CH	Artesyn	SSL20-7605	20	+5/4.0	100-240@50-60	2.5mm x 5.5mm F 2	No	Black	4.2 x 2.3 x 1.0	6'/ <sup>3</sup>	1.5	UL/CSA/VDE/CE	24.95	22.46	17.96	13.11
Š	195805CH	Horizon	DCR920F12	18	+9/2.0	100-240@50-60	2.1mm x 5.5mm F 2	Yes	Black	4.2 x 2.6 x 1.4	6'/6'	0.9	UL/CUL/TUV/CE	26.95	24.25	21.85	19.65
24	195768CH	Horizon	DCR920F52	18	+9/2.0	100-240@50-60	2.5mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.9	UL/CUL/TUV/CE	22.95	20.66	16.52	15.55
2	249041CH	Phihong	PSA15W-120	15	+12/1.25	100-240@50-60	2.1mm x 5.5mm F 2	No	Black	4.3 x 2.6 x 1.0	6'/ <sup>3</sup>	0.3	UL/CSA/TUV/CE	19.49	17.75	16.39	14.55
_	242958CH	Mean Well	G15B-3P2JR15	15	+12/1.3	100-240@50-60	2.1mm x 5.5mm F 2	No	Black	3.9 x 2.3 x 1.6	6'/6'	0.5	UL/CSA/TUV/CE	19.49	17.69	16.39	14.51
	211174CH	Horizon	SC102TA1503	18	+15/1.2	100-240@47-63	2.5mm x 5.5mm F 2	No	Black	4.0 x 1.9 x 1.4	6'/ <sup>3</sup>	0.5	UL/CUL/TUV/CE	19.95	17.95	16.16	14.54
	196138CH	DVE	DSA-0283A	23	+5/1, +12/1.49	100-240@47-63	5-pin DIN M	No	Black	4.9 x 2.7 x 1.5	6'/ <sup>3</sup>	0.8	UL/CSA/TUV	16.95	15.25	12.19	9.15
					-5/.43												

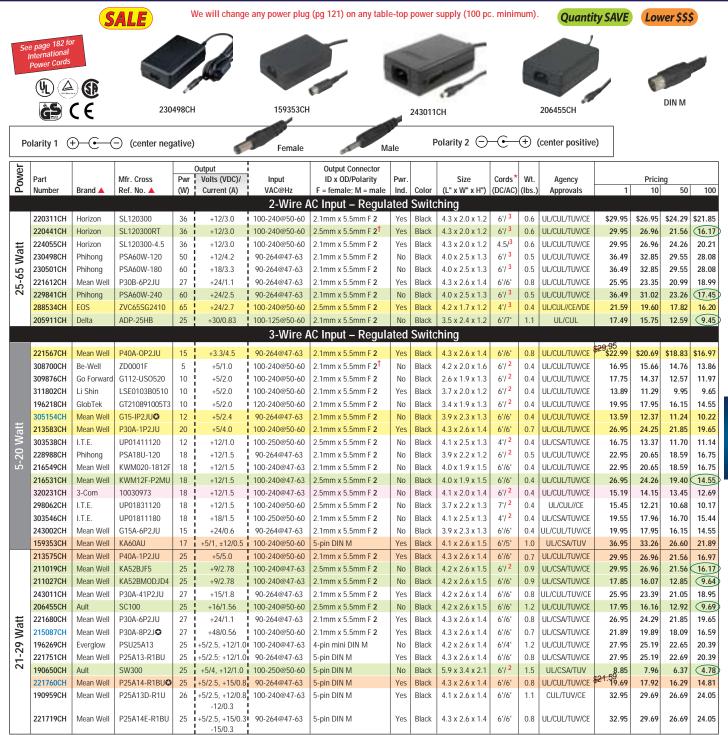
See accessory table-top power cord chart on page 171 when AC cord needed; refer to 1, 2 or 3 in "Cord (DC/AC)" column above for correct power cord

Jameco's Got the Docs

We offer free technical documents for most of the products we carry. Find them easily on the product spec page @ www.Jameco.com.

<sup>▲</sup> Manufacturer and Manufacturer Cross Reference Number may vary except for ReliaPro, Mean Well, Phihong and GlobTek

# AC-to-DC Regulated Switching Table-Top Power Supplies



<sup>\*</sup> See accessory table-top power cord chart on page 171 when AC cord needed; refer to 1, 2 or 3 in "Cord (DC/AC)" column above for correct power cord † Right angle

Manufacturer and Manufacturer Cross Reference Number may vary except for ReliaPro. Mean Well, Phihong and GlobTek 

Blue Part No. = Limited Quantity Available

3-Wire Table-Top Power Supplies Continued on Page 170

# **Compact DC Regulated Switching Power Adapter with Detachable Plugs**

This state-of-the-art switching power adapter offers some major advantages such as stabilized outputs, short circuit and overload protection, compact design, and low idle consumption versus typical wall adapters.

8 plugs: 2.5mm M mono, 3.5mm M mono, 1.0mm x 3.0mm F, 1.3mm x 3.5mm F, 1.7mm x 4.0mm F, 2.1mm x 5.0mm F, 1.5mm x 5.5mm F, and 2.5mm x 5.5mm F
Selectable output voltages: 3 / 4.5 / 6 / 7.5 / 9 / 12 VDC @ 800mA (regulated) with 1.5A max. output

See pages 172-177 for our selection of wall adapters.

 Part No.
 Description
 Input Voltage
 Power Output
 Efficiency
 Size
 Weight
 Price

 239564CH
 Compact power adapter
 100-240VAC
 10W
 80%
 2.9"H x 1.2"W x 1.9"D
 0.2 lbs.
 \$22.95

# AC-to-DC Regulated Switching Table-Top Power Supplies (Continued)



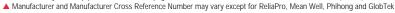


Part Number
320080CH GlobTek TR9CA6000LCP-Y 30 +5/6.0 100-240@50-60 2.5mm x 5.5mm f 2 Yes Black 4.7 x 2.4 x 1.3 6/7 0.7 UL/CUL/TUV/CE \$24.69 \$22.89 \$20.59 \$32.065 \$27.50 Holder Pilhong PSA31U-120 30 +7.5/4.0 100-240@50-60 2.1mm x 5.5mm f 2 No Black 4.3 x 2.6 x 1.4 6/7 0.5 UL/CUL/TUV/CE 29.95 24.25 21.85 29008CH Pilhong PSA31U-120 30 +12/2.5 90-264@47-63 2.1mm x 5.5mm f 2 Yes Black 4.3 x 2.6 x 1.4 6/7 0.7 UL/CUL/TUV/CE 29.95 24.25 21.85 29008CH Pilhong PSA31U-120 30 +12/2.5 90-264@47-63 2.1mm x 5.5mm f 2 Yes Black 4.3 x 2.6 x 1.4 6/7 0.5 UL/CUL/TUV/CE 29.95 23.95 23.96 29.12 297692CH Mean Well P40A-3P2JU 40 +12/3.3 100-240@50-60 2.1mm x 5.5mm f 2 Yes Black 4.3 x 2.6 x 1.4 6/7 0.5 UL/CUL/TUV/CE 29.95 23.66 29.12 29008CH Pilhong PSA31U-150 30 +15/2.0 90-264@47-63 2.1mm x 5.5mm f 2 Yes Black 4.3 x 2.6 x 1.4 6/7 0.5 UL/CUL/TUV/CE 29.39 23.51 20.58 29008CH Pilhong PSA31U-150 30 +15/2.0 90-264@47-63 2.1mm x 5.5mm f 2 Yes Black 4.3 x 2.6 x 1.4 6/7 0.5 UL/CUL/TUV/CE 29.39 23.51 20.58 29008CH Pilhong PSA31U-150 30 +15/2.0 90-264@47-63 2.1mm x 5.5mm f 2 Yes Black 4.3 x 2.6 x 1.4 6/7 0.5 UL/CUL/TUV/CE 29.39 23.51 20.58 29008CH Pilhong PSA31U-150 30 +15/2.0 100-240@50-60 2.5mm x 5.5mm f 2 Yes Black 4.3 x 2.6 x 1.4 6/7 0.5 UL/CUL/TUV/CE 26.95 24.25 21.85 2004471CH Mean Well P40A-4P2JU 40 +15/2.7 90-264@47-63 2.1mm x 5.5mm f 2 Yes Black 4.3 x 2.6 x 1.4 6/7 0.5 UL/CUL/TUV/CE 26.95 24.25 21.85 2004471CH Pilhong PSA31U-180 30 +15/2.0 90-264@47-63 2.1mm x 5.5mm f 2 Yes Black 4.3 x 2.6 x 1.4 6/6 0.8 UL/CUL/TUV/CE 26.95 24.25 21.85 2004471CH Pilhong PSA31U-180 30 +18/1.6 90-264@47-63 2.1mm x 5.5mm f 2 Yes Black 4.3 x 2.6 x 1.4 6/6 0.8 UL/CUL/TUV/CE 26.95 24.25 21.85 2004471CH Pilhong PSA31U-180 30 +24/1.25 90-264@47-63 2.1mm x 5.5mm f 2 Yes Black 4.3 x 2.6 x 1.4 6/6 0.7 UL/CUL/TUV/CE 26.95 24.25 21.85 2004471CH Pilhong PSA31U-180 30 +24/1.25 90-264@47-63 2.1mm x 5.5mm f 2 Yes Black 4.3 x 2.6 x 1.4 6/6 0.7 UL/CUL/TUV/CE 26.95 24.25 21.85 2004471CH Pilhong PSA31U-180 30 +24/1.25 90-264@47-63 2.1mm x 5.5mm f 2 Yes Black 4.3 x 2.6 x 1.4 6/6 0.7 UL
320080CH GlobTek TR9CA6000LCP-Y 30 +5/6.0 100-240@50-60 2.5mm x 5.5mm F 2 Yes Black 4.7 x 2.4 x 1.3 6/7 0.7 UL/CUL/TUV/CE \$24.69 \$22.89 \$20.59 \$3 206527CH Mean Well P40A-1-P25U 30 +7.5/4.0 100-240@50-60 2.5mm x 5.5mm F 2 Yes Black 5.7 x 3.0 x 1.7 4/6 1.4 UL/CUL/TUV/CE 29.95 24.25 21.85 155213CH Mean Well P40A-3P2JU 40 +12/3.3 100-240@50-60 2.1mm x 5.5mm F 2 Yes Black 4.3 x 2.6 x 1.4 6/7 0.5 UL/CUL/TUV/CE 29.95 22.59 23.95 23.96 29.12 297692CH Mean Well P40A-3P2JU 40 +12/3.3 100-240@50-60 2.1mm x 5.5mm F 2 Yes Black 4.3 x 2.6 x 1.4 6/7 0.5 UL/CUL/TUV/CE 29.95 23.66 29.12 297692CH Mean Well P40A-3P2JU 40 +12/3.3 90-264@47-63 2.1mm x 5.5mm F 2 Yes Black 4.3 x 2.6 x 1.4 6/7 0.5 UL/CUL/TUV/CE 29.39 23.51 20.58 29.12 297692CH Mean Well P40A-3P2JU 40 +12/3.3 90-264@47-63 2.1mm x 5.5mm F 2 Yes Black 4.3 x 2.6 x 1.4 6/7 0.5 UL/CUL/TUV/CE 29.39 23.51 20.58 29.10 29006CH Phihong PSA31U-150 30 +15/2.0 90-264@47-63 2.1mm x 5.5mm F 2 Yes Black 4.3 x 2.6 x 1.4 6/7 0.5 UL/CUL/TUV/CE 29.39 23.51 20.58 29006CH Phihong PSA31U-180 30 +15/2.0 90-264@47-63 2.1mm x 5.5mm F 2 No Black 5.6 x 2.9 x 1.6 6/6 1.2 UL/CUL/TUV/CE 26.95 24.25 21.85 29006CH Phihong PSA31U-180 30 +18/1.6 90-264@47-63 2.1mm x 5.5mm F 2 Yes Black 4.3 x 2.6 x 1.4 6/7 0.5 UL/CUL/TUV/CE 26.95 24.25 21.85 29006CH Phihong PSA31U-180 30 +18/1.6 90-264@47-63 2.1mm x 5.5mm F 2 No Black 5.6 x 2.9 x 1.6 6/6 0.8 UL/CUL/TUV/CE 26.95 24.25 21.85 29006CH Phihong PSA31U-180 30 +24/1.25 90-264@47-63 2.1mm x 5.5mm F 2 No Black 4.3 x 2.6 x 1.4 6/6 0.8 UL/CUL/TUV/CE 26.95 24.25 21.85 29006CH Phihong PSA31U-180 30 +24/1.25 90-264@47-63 2.1mm x 5.5mm F 2 No Black 4.3 x 2.6 x 1.4 6/6 0.7 UL/CUL/TUV/CE 26.95 24.25 21.85 29006CH Phihong PSA31U-180 30 +24/1.25 90-264@47-63 2.1mm x 5.5mm F 2 No Black 4.3 x 2.6 x 1.4 6/6 0.7 UL/CUL/TUV/CE 26.95 24.25 21.85 29006CH Phihong PSA31U-180 30 +48/0.63 90-264@47-63 2.1mm x 5.5mm F 2 Yes Black 4.3 x 2.6 x 1.4 6/6 0.7 UL/CUL/TUV/CE 26.95 24.25 21.85 29006CH Phihong PSA31U-180 30 +24/1.25 90-264@47-63 2.1mm x 5.5mm F 2 Yes Black 4.3 x 2.6 x 1.4 6/6 0.
320080CH   GlobTek   TR9CA6000LCP-Y   30   +5/6.0   100-240@50-60   2.5mm x 5.5mm F 2   Yes   Black   4.7 x 2.4 x 1.3   67/2   0.7   UL/CUL/TUV/CE   \$24.69   \$22.89   \$20.59   \$7.516CH   Mean Well   V40A-1-P25U   30   +7.514.0   100-240@50-60   2.1mm x 5.5mm F 2   Yes   Black   4.3 x 2.7 x 1.5   67/6   1.5   UL/CUL/TUV/CE   29.95   26.95   23.95   23.95   229008CH   Phihong   PSA31U-120   30   +12/2.5   90-264@47-63   2.1mm x 5.5mm F 2   Yes   Black   4.3 x 2.7 x 1.5   67/6   0.5   UL/CUL/TUV/CE   26.95   24.25   21.85   229016CH   Phihong   PSA31U-150   30   +15/2.0   90-264@47-63   2.1mm x 5.5mm F 2   Yes   Black   4.3 x 2.6 x 1.4   67/6   0.7   UL/CUL/TUV/CE   26.95   24.25   21.85   229016CH   Phihong   PSA31U-150   30   +15/2.0   90-264@47-63   2.1mm x 5.5mm F 2   Yes   Black   4.3 x 2.6 x 1.4   67/6   0.7   UL/CUL/TUV/CE   29.39   23.51   20.58   229016CH   Phihong   PSA31U-150   30   +15/2.0   90-264@47-63   2.1mm x 5.5mm F 2   Yes   Black   4.3 x 2.6 x 1.4   67/6   0.7   UL/CUL/TUV/CE   29.39   23.51   20.58   229016CH   Phihong   PSA31U-150   30   +15/2.0   90-264@47-63   2.1mm x 5.5mm F 2   Yes   Black   4.3 x 2.6 x 1.4   67/6   0.5   UL/CUL/TUV/CE   29.39   23.51   20.58   229016CH   Phihong   PSA31U-150   30   +15/2.0   90-264@47-63   2.1mm x 5.5mm F 2   Yes   Black   4.3 x 2.6 x 1.4   67/6   0.5   UL/CUL/TUV/CE   26.95   24.25   21.85   229016CH   Phihong   PSA31U-150   30   +18/1.6   90-264@47-63   2.1mm x 5.5mm F 2   No   Black   4.3 x 2.6 x 1.4   67/6   0.5   UL/CUL/TUV/CE   26.95   24.25   21.85   229024CH   Phihong   PSA31U-240   30   +24/1.25   90-264@47-63   2.1mm x 5.5mm F 2   No   Black   4.5 x 2.4 x 1.4   67/6   0.5   UL/CUL/TUV/CE   26.95   24.25   21.85   229024CH   Phihong   PSA31U-480   30   +48/6.0   90-264@47-63   2.1mm x 5.5mm F 2   No   Black   4.5 x 2.4 x 1.4   67/6   0.5   UL/CUL/TUV/CE   26.95   24.25   21.85   229024CH   Phihong   PSA31U-480   30   +48/6.0   90-264@47-63   2.1mm x 5.5mm F 2   No   Black   4.5 x 2.4 x 1.4   67/6   0.5   UL/CUL/TUV/CE   26.95   24.25   21.85
221516CH Mean Well P40A-1-1P25U 30 +7.5/4.0 100-240@50-60 2.1mm x 5.5mm F 2 Ves Black 4.3 x 2.7 x 1.5 6/6 1.5 UL/CUL/TUV/CE 29.95 26.95 23.95 22908CH Philong P5A31U-120 30 +12/2.5 90-264@47-63 2.1mm x 5.5mm F 2 Ves Black 4.3 x 2.6 x 1.4 6/6 0.7 UL/CUL/TUV/CE 29.95 32.36 29.12 35503CH ReliaPro JR-TT-40-12 40 +12/3.3 90-264@47-63 2.1mm x 5.5mm F 2 Ves Black 4.3 x 2.6 x 1.4 6/6 0.7 UL/CUL/TUV/CE 29.95 24.25 21.85 229016CH Philong P5A31U-150 30 +15/2.0 90-264@47-63 2.1mm x 5.5mm F 2 Ves Black 4.3 x 2.6 x 1.4 6/6 0.7 UL/CUL/TUV/CE 29.95 24.25 21.85 229016CH Mean Well P40A-4R2JU 40 +12/3.3 90-264@47-63 2.1mm x 5.5mm F 2 Ves Black 4.3 x 2.6 x 1.4 6/6 0.7 UL/CUL/TUV/CE 29.93 23.51 20.58 229016CH Philong P5A31U-150 30 +15/2.0 90-264@47-63 2.1mm x 5.5mm F 2 Ves Black 4.3 x 2.6 x 1.4 6/6 0.7 UL/CUL/TUV/CE 29.93 23.51 20.58 229016CH Mean Well P40A-4R2JU 40 +15/2.7 90-264@47-63 2.1mm x 5.5mm F 2 Ves Black 4.3 x 2.6 x 1.4 6/6 0.5 UL/CUL/TUV/CE 26.95 24.25 21.85 229024CH Philong P5A31U-150 30 +15/2.0 100-240@50-60 2.5mm x 5.5mm F 2 Ves Black 4.3 x 2.6 x 1.4 6/6 0.5 UL/CUL/TUV/CE 26.95 24.25 21.85 220024CH Philong P5A31U-180 30 +18/1.6 90-264@47-63 2.1mm x 5.5mm F 2 Ves Black 4.3 x 2.6 x 1.4 6/6 0.5 UL/CUL/TUV/CE 26.95 24.25 21.85 220024CH Philong P5A31U-180 30 +24/1.25 90-264@47-63 2.1mm x 5.5mm F 2 Ves Black 4.3 x 2.6 x 1.4 6/6 0.5 UL/CUL/TUV/CE 35.95 24.25 21.85 220024CH Philong P5A31U-480 30 +24/1.25 90-264@47-63 2.1mm x 5.5mm F 2 Ves Black 4.3 x 2.6 x 1.4 6/6 0.7 UL/CUL/TUV/CE 26.95 24.25 21.85 220024CH Philong P5A31U-480 30 +24/1.25 90-264@47-63 2.1mm x 5.5mm F 2 Ves Black 4.3 x 2.6 x 1.4 6/6 0.7 UL/CUL/TUV/CE 26.95 24.25 21.85 220024CH Philong P5A31U-480 30 +48/0.63 90-264@47-63 2.1mm x 5.5mm F 2 Ves Black 4.3 x 2.6 x 1.4 6/6 0.7 UL/CUL/TUV/CE 26.95 24.25 21.85 21.85 220034CH Philong P5A31U-480 30 +48/0.63 90-264@47-63 2.1mm x 5.5mm F 2 Ves Black 4.3 x 2.6 x 1.4 6/6 0.7 UL/CUL/TUV/CE 26.95 24.25 21.85 21.85 220034CH Philong P5A31U-480 30 +48/0.63 90-264@47-63 2.1mm x 5.5mm F 2 Ves Black 4.3 x 2.6 x 1.4 6/6 0.7 UL/CUL/TU
## PACA-1-1P25U 30
229008CH Phihong PSA31U-120 30 +12/2.5 90-264@47-63 2.1mm x 5.5mm F 2 No Black 4.5 x 2.4 x 1.4 6'/2 0.5 UL/CUL/TUV/CE 26.95 24.25 21.85 155213CH Mean Well P40A-3P2JU 40 +12/3.3 100-240@50-60 2.1mm x 5.5mm F 2 Yes Black 4.3 x 2.6 x 1.4 6'/6' 0.7 UL/CUL/TUV/CE 29.39 23.51 20.58 29.12 29016CH Phihong PSA31U-150 30 +15/2.0 90-264@47-63 2.1mm x 5.5mm F 2 No Black 4.5 x 2.4 x 1.4 6'/2 0.5 UL/CUL/TUV/CE 29.39 23.51 20.58 220916CH Mean Well P40A-4RR01U 30 +15/2.7 90-264@47-63 2.1mm x 5.5mm F 2 No Black 4.5 x 2.4 x 1.4 6'/2 0.5 UL/CUL/TUV/CE 26.95 24.25 21.85 220916CH Phihong PSA31U-180 30 +15/2.7 90-264@47-63 2.1mm x 5.5mm F 2 No Black 4.5 x 2.4 x 1.4 6'/2 0.5 UL/CUL/TUV/CE 26.95 24.25 21.85 220924CH Phihong PSA31U-240 30 +12/1.2 90-264@47-63 2.1mm x 5.5mm F 2 No Black 4.5 x 2.4 x 1.4 6'/2 0.5 UL/CUL/TUV/CE 26.95 24.25 21.85 220924CH Phihong PSA31U-240 30 +24/1.2 90-264@47-63 2.1mm x 5.5mm F 2 No Black 4.5 x 2.4 x 1.4 6'/2 0.5 UL/CUL/TUV/CE 26.95 24.25 21.85 220932CH Phihong PSA31U-240 30 +24/1.7 100-240@50-60 2.1mm x 5.5mm F 2 No Black 4.5 x 2.4 x 1.4 6'/6' 0.5 UL/CUL/TUV/CE 26.95 24.25 21.85 220932CH Phihong PSA31U-480 30 +424/1.7 90-264@47-63 2.1mm x 5.5mm F 2 Yes Black 4.3 x 2.6 x 1.4 6'/6' 0.5 UL/CUL/TUV/CE 26.95 24.25 21.85 220932CH Phihong PSA31U-480 30 +48/0.63 90-264@47-63 2.1mm x 5.5mm F 2 Yes Black 4.3 x 2.6 x 1.4 6'/6' 0.7 UL/CUL/TUV/CE 26.95 24.25 21.85 22183CH Mean Well P40A-8P2JU 40 +48/0.8 90-264@47-63 2.1mm x 5.5mm F 2 Yes Black 4.3 x 2.6 x 1.4 6'/6' 0.5 UL/CUL/TUV/CE 26.95 24.25 21.85 22183CH Mean Well P40A-8P2JU 40 +48/0.8 90-264@47-63 2.1mm x 5.5mm F 2 Yes Black 4.3 x 2.6 x 1.4 6'/6' 0.5 UL/CUL/TUV/CE 26.95 24.25 21.85 22183CH Mean Well P40A-8P2JU 40 +48/0.8 90-264@47-63 2.1mm x 5.5mm F 2 Yes Black 4.3 x 2.6 x 1.4 6'/6' 0.5 UL/CUL/TUV/CE 26.95 24.25 21.85 22183CH Mean Well P40A-8P2JU 40 +48/0.8 90-264@47-63 2.1mm x 5.5mm F 2 Yes Black 4.3 x 2.6 x 1.4 6'/6' 0.8 UL/CUL/TUV/CE 26.95 24.25 21.85 22183CH Mean Well P40A-8P2JU 40 +48/0.8 90-264@47-63 2.1mm x 5.5mm F 2 Yes Black 4.3 x 2.6 x 1.4 6'/6' 0.8 UL
155213CH Mean Well P40A-3P2JU 40 +12/3.3 100-240@50-60 2.1mm x 5.5mm F 2 Yes Black 4.3 x 2.6 x 1.4 6/6′ 0.7 UL/CUL/TUV/CE 35.95 32.36 29.12 297692CH Mean Well P40A-3P2MU 40 +12/3.3 90-264@47-63 2.5mm x 5.5mm F 2 Yes Black 4.3 x 2.6 x 1.4 6/6′ 0.7 UL/CUL/TUV/CE 29.39 23.51 20.58 229016CH Philong PSA31U-150 30 +15/2.0 90-264@47-63 2.1mm x 5.5mm F 2 No Black 4.5 x 2.4 x 1.4 6/7 0.5 UL/CUL/TUV/CE 26.95 24.25 21.85 229016CH Philong PSA31U-180 30 +15/2.7 90-264@47-63 2.1mm x 5.5mm F 2 No Black 4.3 x 2.6 x 1.4 6/7 0.5 UL/CUL/TUV/CE 26.95 24.25 21.85 229024CH Philong PSA31U-180 30 +18/1.6 90-264@47-63 2.1mm x 5.5mm F 2 No Black 4.5 x 2.4 x 1.4 6/7 0.5 UL/CUL/TUV/CE 26.95 24.25 21.85 229024CH Philong PSA31U-240 30 +24/1.2 90-264@47-63 2.1mm x 5.5mm F 2 No Black 4.5 x 2.4 x 1.4 6/7 0.5 UL/CUL/TUV/CE 26.95 24.25 21.85 229024CH Philong PSA31U-240 30 +24/1.2 90-264@47-63 2.1mm x 5.5mm F 2 No Black 4.5 x 2.4 x 1.4 6/7 0.5 UL/CUL/TUV/CE 26.95 24.25 21.85 229032CH Philong PSA31U-480 30 +24/1.7 100-240@50-60 2.1mm x 5.5mm F 2 Yes Black 4.3 x 2.6 x 1.4 6/7 0.5 UL/CUL/TUV/CE 26.95 24.25 21.85 229032CH Philong PSA31U-480 30 +24/1.7 100-240@50-60 2.1mm x 5.5mm F 2 Yes Black 4.3 x 2.6 x 1.4 6/7 0.5 UL/CUL/TUV/CE 26.95 24.25 21.85 229032CH Philong PSA31U-480 30 +48/0.63 90-264@47-63 2.1mm x 5.5mm F 2 Yes Black 4.3 x 2.6 x 1.4 6/7 0.7 UL/CUL/TUV/CE 26.95 24.25 21.85 229032CH Philong PSA31U-480 30 +48/0.63 90-264@47-63 2.1mm x 5.5mm F 2 Yes Black 4.3 x 2.6 x 1.4 6/7 0.5 UL/CUL/TUV/CE 33.95 32.36 29.12 22583CH Mean Well P40A-8P2JU 40 +48/0.8 90-264@47-63 2.1mm x 5.5mm F 2 Yes Black 4.3 x 2.6 x 1.4 6/7 0.5 UL/CUL/TUV/CE 33.95 32.36 29.12 22583CH Mean Well P40A-8P2JU 40 +48/0.8 90-264@47-63 2.1mm x 5.5mm F 2 Yes Black 4.3 x 2.6 x 1.4 6/7 0.5 UL/CUL/TUV/CE 33.95 32.36 29.12 22583CH Mean Well P40A-8P2JU 40 +48/0.8 90-264@47-63 2.1mm x 5.5mm F 2 Yes Black 4.3 x 2.6 x 1.4 6/7 0.5 UL/CUL/TUV/CE 33.95 32.36 29.12 22583CH Mean Well P40A-8P2JU 40 +48/0.8 90-264@47-63 2.1mm x 5.5mm F 2 Yes Black 5.0 x 3.0 x 1.6 6/7 0.7 UL/CUL/TUV/CE 33.95 30.56 24
## 297692CH   Mean Well   P40A-3P2MU   40
## Page 12   Page 13   Page 14   Pag
229016CH Phihong PSA31U-150 30 +15/2.0 90-264@47-63 2.1mm x 5.5mm F 2 No Black 4.5 x 2.4 x 1.4 6/2 0.5 UL/CUL/TUV/CE 26.95 24.25 21.85 221.85
221575CH Mean Well P40A-4P2JU 40 +15/2.7 90-264@47-63 2.1mm x 5.5mm F 2 Yes Black 4.3 x 2.6 x 1.4 6/6 0.8 UL/CUL/TUV/CE 33.95 30.56 27.50 22.0048CH Phihong PSA31U-180 30 +18/1.6 90-264@47-63 2.1mm x 5.5mm F 2 No Black 3.9 x 2.2 x 1.2 6/2 0.5 UL/CUL/TUV/CE 26.95 24.25 21.85 22.0048CH Phihong PSA31U-240 30 +24/1.25 90-264@47-63 2.1mm x 5.5mm F 2 No Black 4.5 x 2.4 x 1.4 6/2 0.5 UL/CUL/TUV/CE 26.95 24.25 21.85 21.85 22.0048CH Mean Well P40A-6P2JU 40 +24/1.7 100-240@50-60 2.1mm x 5.5mm F 2 Yes Black 4.3 x 2.6 x 1.4 6/6 0.7 UL/TUV/CE 35.95 32.36 29.12 229032CH Phihong PSA31U-480 30 +48/0.63 90-264@47-63 2.1mm x 5.5mm F 2 Yes Black 4.3 x 2.6 x 1.4 6/6 0.7 UL/CUL/TUV/CE 26.95 24.25 21.85 22.0043CH Ault SC200 32 +5/4, +12/1 100-240@50-60 5-pin DIN M No Black 5.0 x 3.0 x 1.6 6/2 1.3 UL/CSA/CE 19.95 17.95 14.36 211191CH Westinghouse FSA30P31 30 +5/3, ±12/0.8 85-264@47-63 2.1mm x 5.5mm F 2 Yes Black 5.7 x 3.0 x 1.7 6/6 2.0 UL/CUL/TUV/CE 36.95 33.95 31.95 31.95
221575CH Mean Well P40A-4P2JU 40 +15/2.7 90-264@47-63 2.1mm x 5.5mm F 2 Yes Black 4.3 x 2.6 x 1.4 6/6 0.8 UL/CUL/TUV/CE 33.95 30.56 27.50 22.0048CH Phihong PSA31U-180 30 +18/1.6 90-264@47-63 2.1mm x 5.5mm F 2 No Black 3.9 x 2.2 x 1.2 6/2 0.5 UL/CUL/TUV/CE 26.95 24.25 21.85 22.0048CH Phihong PSA31U-240 30 +24/1.25 90-264@47-63 2.1mm x 5.5mm F 2 No Black 4.5 x 2.4 x 1.4 6/2 0.5 UL/CUL/TUV/CE 26.95 24.25 21.85 21.85 22.0048CH Mean Well P40A-6P2JU 40 +24/1.7 100-240@50-60 2.1mm x 5.5mm F 2 Yes Black 4.3 x 2.6 x 1.4 6/6 0.7 UL/TUV/CE 35.95 32.36 29.12 229032CH Phihong PSA31U-480 30 +48/0.63 90-264@47-63 2.1mm x 5.5mm F 2 Yes Black 4.3 x 2.6 x 1.4 6/6 0.7 UL/CUL/TUV/CE 26.95 24.25 21.85 22.0043CH Ault SC200 32 +5/4, +12/1 100-240@50-60 5-pin DIN M No Black 5.0 x 3.0 x 1.6 6/2 1.3 UL/CSA/CE 19.95 17.95 14.36 211191CH Westinghouse FSA30P31 30 +5/3, ±12/0.8 85-264@47-63 2.1mm x 5.5mm F 2 Yes Black 5.7 x 3.0 x 1.7 6/6 2.0 UL/CUL/TUV/CE 36.95 33.95 31.95 31.95
229024CH         Phihong         PSA31U-240         30         +24/1.25         90-264@47-63         2.1mm x 5.5mm F 2         No         Black         4.5 x 2.4 x 1.4         6/f²         0.5         UL/CUL/TUV/CE         26.95         24.25         21.85           181884CH         Mean Well         P40A-6P2JU         40         +24/1.7         100-240@50-60         2.1mm x 5.5mm F 2         Yes         Black         4.3 x 2.6 x 1.4         6/f²         0.7         UL/CUL/TUV/CE         35.95         32.36         29.12         2.20           29032CH         Phihong         PSA31U-480         30         +48/0.63         90-264@47-63         2.1mm x 5.5mm F 2         No         Black         4.5 x 2.4 x 1.6         6/f²         0.5         UL/CUL/TUV/CE         35.95         32.36         29.12         2.20         221583CH         Mean Well         PSA31U-480         30         +48/0.63         90-264@47-63         2.1mm x 5.5mm F 2         Yes         Black         4.5 x 2.4 x 1.6         6/f²         0.5         UL/CUL/TUV/CE         26.95         24.25         21.85           221583CH         Mean Well         P40A-8P2JU         40         +48/0.8         90-264@47-63         2.1mm x 5.5mm F 2         Yes         Black         4.3 x 2.6 x 1.4         6/f²
229024CH         Phihong         PSA31U-240         30         +24/1.25         90-264@47-63         2.1mm x 5.5mm F 2         No         Black         4.5 x 2.4 x 1.4         6/f²         0.5         UL/CUL/TUV/CE         26.95         24.25         21.85           181884CH         Mean Well         P40A-6P2JU         40         +24/1.7         100-240@50-60         2.1mm x 5.5mm F 2         Yes         Black         4.3 x 2.6 x 1.4         6/f²         0.7         UL/CUL/TUV/CE         35.95         32.36         29.12         2.20           29032CH         Phihong         PSA31U-480         30         +48/0.63         90-264@47-63         2.1mm x 5.5mm F 2         No         Black         4.5 x 2.4 x 1.6         6/f²         0.5         UL/CUL/TUV/CE         35.95         32.36         29.12         2.20         221583CH         Mean Well         PSA31U-480         30         +48/0.63         90-264@47-63         2.1mm x 5.5mm F 2         Yes         Black         4.5 x 2.4 x 1.6         6/f²         0.5         UL/CUL/TUV/CE         26.95         24.25         21.85           221583CH         Mean Well         P40A-8P2JU         40         +48/0.8         90-264@47-63         2.1mm x 5.5mm F 2         Yes         Black         4.3 x 2.6 x 1.4         6/f²
181884CH         Mean Well         P40A-6P2JU         40         +24/1.7         100-240@50-60         2.1mm x 5.5mm F 2         Yes         Black         4.3 x 2.6 x 1.4         6'/6'         0.7         UL/TUV/CE         35.95         32.36         29.12         2.209.12         2.
297756CH         Mean Well PdA-6P2MU         40         +24/1.7         90-264@47-63         2.5mm x 5.5mm F 2         Yes         Black PdA-6P2MU         4.3 x 2.6 x 1.4         6'/6'         0.7         UL/CUL/TUV/CE         35.95         32.36         29.12
229032CH         Phihong         PSA31U-480         30         +48/0.63         90-264@47-63         2.1mm x 5.5mm F 2         No         Black         4.5 x 2.4 x 1.6         6'/2         0.5         UL/CUL/TUV/CE         26.95         24.25         21.85         221.85           221583CH         Mean Well         P40A-8P2JU         40         +48/0.8         90-264@47-63         2.1mm x 5.5mm F 2         Yes         Black         4.3 x 2.6 x 1.4         6'/6'         0.8         UL/CUL/TUV/CE         33.95         30.56         24.44         24.44         24.44         24.45         24.44         24.45         24.44         24.45         24.44         24.45         24.45         24.45         24.45         24.44         24.45         24.45         24.44         24.45         24.44         24.45         24.44         24.45         24.44         24.45         24.44         24.44         24.44         24.44         24.44         24.44
221583CH Mean Well P40A-8P2JU 40 +48/0.8 90-264@47-63 2.1mm x 5.5mm F 2 Yes Black 4.3 x 2.6 x 1.4 6'/6' 0.8 UL/CUL/TUV/CE 33.95 30.56 24.44 203043CH Ault SC200 32 +5/4, +12/1 100-240@50-60 5-pin DIN M No Black 5.0 x 3.0 x 1.6 6'/2 1.3 UL/CSA/CE 19.95 17.95 14.36 211191CH Westinghouse FSA30P31 30 +5/3, ±12/0.8 85-264@47-63 5-pin DIN M No Black 5.8 x 3.0 x 1.7 4'/2 1.1 UL/CSA/TUV 25.95 23.35 18.68 221487CH Mean Well SPU50-1U 50 +5/10 90-264@47-63 2.1mm x 5.5mm F 2 Yes Black 5.7 x 3.0 x 1.7 6'/6' 2.0 UL/CUL/TUV/CE 36.95 33.95 31.95 31.95
203043CH Ault SC200 32 +5/4, +12/1 100-240@50-60 5-pin DIN M No Black 5.0 x 3.0 x 1.6 6/2 1.3 UL/CSA/CE 19.95 17.95 14.36 211191CH Westinghouse FSA30P31 30 +5/3, ±12/0.8 85-264@47-63 5-pin DIN M No Black 5.8 x 3.0 x 1.7 4/2 1.1 UL/CSA/TUV 25.95 23.35 18.68 221487CH Mean Well SPU50-1U 50 +5/10 90-264@47-63 2.1mm x 5.5mm F 2 Yes Black 5.7 x 3.0 x 1.7 6/6 2.0 UL/CUL/TUV/CE 36.95 33.95 31.95 3
211191CH       Westinghouse FSA30P31       30       +5/3, ±12/0.8       85-264@47-63       5-pin DIN M       No       Black       5.8 x 3.0 x 1.7       4½²       1.1       UL/CSA/TUV       25.95       23.35       18.68         221487CH       Mean Well       SPU50-1U       50       +5/10       90-264@47-63       2.1mm x 5.5mm F 2       Yes       Black       5.7 x 3.0 x 1.7       6/6²       2.0       UL/CUL/TUV/CE       36.95       33.95       31.95       33.95
221487CH Mean Well SPU50-1U 50 +5/10 90-264@47-63 2.1mm x 5.5mm F 2 Yes Black 5.7 x 3.0 x 1.7 6'/6' 2.0 UL/CUL/TUV/CE 36.95 33.95 31.95
221541CH   Mean Well   U45S108-P2JU  50   +24/2.1   90-264@47-63   2.1mm x 5.5mm F 2   Yes   Black   5.7 x 3.0 x 1.7   6'/6'   1.3   UL/CSA/TUV/CE   34.95   31.46   27.50   3
221559CH Mean Well U45S111-P2JU 48 +48/1.0 90-264@47-63 2.1mm x 5.5mm F 2 Yes Black 5.7 x 3.0 x 1.7 6'/6' 1.3 UL/CUL/TUV/CE 34.95 31.46 27.50
237366CH Mean Well P50A14E-R1BU 42 +5/3.5; +15/1.2 100-240@47-63 5-pin DIN M Yes Black 5.8 x 3.0 x 1.7 4'/6' 1.2 UL/CUL/TUV/CE 36.95 33.25 29.95
221701CH Mean Well P50A13D-R1BU 50 +5/4.0, +12/2.0 90-264@47-63 5-pin DIN M Yes Black 5.7 x 3.0 x 1.7 4'/6' 1.5 UL//CUL/TUV/CE 48.95 44.09 39.69
215132CH Mean Well U45T302-R1BU 42 +5/5, +12/1, 90-264@47-63 5-pin DIN M Yes Black 5.8 x 3.1 x 1.8 4'/6' 1.4 UL/CUL/TUV/CE 49.95 44.99 40.49 3
211107CH   Fortron   FSA55P31   45   +5/5, +12/3   85-264@50-60   5-pin DIN M   Yes   Black   7.0 x 3.8 x 2.2   4'/2   1.6   UL/CSA/TUV   49.95   44.96   35.9
1 -12/0.5 1
155230CH Mean Well SPU50-3U 60 i +12/5.0 i 100-240@47-63   2.1mm x 5.5mm F 2   Yes   Black   5.7 x 3.0 x 1.7   6'/6'   1.3   UL/CSA/TUV   49.95   44.95   39.9
297721CH Mean Well SPU50-3P2MU 60 + +12/5.0 90-264@47-63 2.5mm x 5.5mm F 2 Yes Black 5.7 x 3.0 x 1.7 6//6 1.3 UL/CUL/TUV/CE 49.95 44.95 39.95 3
355071CH ReliaPro JR-TT-66-12 66 +12/5.5 90-264@47-63 2.5mm x 5.5mm F 2 Yes Black 5.8 x 3.0 x 1.7 61/2 1.2 UL/CUL/TUV/CE 34.95 32.21 28.69 38.25
221436CH Mean Well U65S106-P2JU 80 + 15/5.33 + 95-264@47-63 2.1mm x 5.5mm F 2 Yes Black 6.6 x 3.1 x 1.8 6'/6' 2.0 UL/CUL/TUV/CE 64.95 55.29 49.95 6 243045CH Mean Well P66A-5P2JU 66 + 18/3.66 90-264@47-63 2.1mm x 5.5mm F 2 Yes Black 5.8 x 3.0 x 1.7 6'/6' 1.2 UL/CUL/TUV/CE 38.49 34.91 32.21
243043CH   Mean Well   U65S107-P2JU   80   +18/4.4   95-264@47-63   2.1mm x 5.5mm F 2   Yes   Black   6.6 x 3.1 x 1.8   6'/6'   2.0   UL/CUL/TUV/CE   64.95   55.29   49.95   64.95
80 221444CH Mean Well U65S107-P2JU 80 +18/4.4 95-264@47-63 2.1mm x 5.5mm F 2 Yes Black 6.6 x 3.1 x 1.8 6'/6' 2.0 UL/CUL/TUV/CE 64.95 55.29 49.95 64.95 161605CH Mean Well SPU50-6U 60 +24/2.5 100-240@47-63 2.1mm x 5.5mm F 2 Yes Black 5.6 x 2.9 x 1.6 1'9"/6' 1.3 UL/CSA/TUV 44.95 39.95 35.95 35.95
297633CH Mean Well SPU50-6P2MU 60 I +24/2.5 I 95-264@47-63 2.5mm x 5.5mm F 2 Yes Black 5.0 x 2.9 x 1.6 I 976 1.3 UL/CSA/TUV 44.95 39.95 35.95 3
355055CH ReliaPro JR-TT-66-24 66 + +24/2.75   90-264@47-63   2.5mm x 5.5mm F 2   Yes   Black   5.8 x 3.0 x 1.7   61/2   1.2   UL/CUL/TUV/CE   34.95   32.21   28.68   3.5 x 3.0 x 1.7   61/2   3.5 x 3.0 x 3.0 x 1.7   61/2   3.5 x 3.0 x
221452CH Mean Well U65S108-P2JU 80 1 +24/3.3 1 95-264@47-63 2.5lmln x 5.5mm F 2 Yes Black 6.6 x 3.1 x 1.8 6'/6' 2.0 UL/CUL/TUV/CE 64.95 55.29 49.95
355080CH ReliaPro JR-TT-66-48 66 +48/1.37 +90-264@47-63 2.5mm x 5.5mm F 2 Yes Black 5.8 x 3.0 x 1.7 6/12 1.2 UL/CUL/TUV/CE 34.95 32.21 28.69 3
172064CH Mean Well SPU50-9U 60 +48/1.25 100-240@47-63 2.1mm x 5.5mm F 2 Yes Black 5.6 x 2.9 x 1.7 6//6 1.3 UL/CSA/TUV 44.95 40.49 36.45
221461CH Mean Well U65S111-P2JU 80 448/1.7 95-264@47-63 2.1mm x 5.5mm F 2 Yes Black 6.6 x 3.1 x 1.8 6'/6' 2.0 UL/CUL/TUV/CE 64.95 55.29 49.95

<sup>\*</sup> See accessory table-top power cord chart on page 171 when AC cord needed; refer to 1, 2 or 3 in "Cord (DC/AC)" column above for correct power cord

• Blue Part No. = Limited Quantity Available

A Manufactures and Manufactures Green Processes Number manufactures and Manufactur





# Lowest Price Guarantee

Found a product at a lower print advertised price? We'll beat that price by 10% right down to our cost!



# AC-to-DC Regulated Linear Table-Top Power Supplies



Power					Output		Output Connector										
\$	Part		Mfr. Cross	Pwr	Volts (VDC)/	Input	ID x OD/Polarity	Pwr.		Size	Cords*	Wt.	Agency		Pric	ing	
l ⊆	Number	Brand A	Ref. No. A	(W)	Current (A)	VAC@Hz	F = female; M = male	Ind.	Color	(L" x W" x H")	(DC/AC)	(lbs.)	Approvals	1	10	50	100
						2-V	Vire AC Input – Regւ	ılate	d Lin	ear							
25	211060CH	Pacific Data	DV-51AAT	5	+5/1	120@60	2.1mm x 5.5mm rt angle F 2	No	Black	3.4 x 2.7 x 2.2	6'6"/6'	1.7	UL/CSA	\$11.95	\$10.76	\$8.60	\$6.45
5	174844CH	Jameco	DCR2410F12	24	+24/1	120@60	2.1mm x 5.5mm F 2	No	Black	4.4 x 3.0 x 2.5	6'/6'	2.6	No UL	16.95	15.26	13.73	11.44
						3-V	Vire AC Input – Regu	ılate	d Lin	ear							
S	265295CH	_	T5121000/37	12.2	+5/1, ±12/0.3	120@60	5-pin DIN M	No	Black	4.5 x 3.0 x 2.5	6'/6'	2.6	UL/CSA	\$9.69	\$8.72	\$7.85	\$6.56
att	154624CH	Motorola	5712-305-4C3E <sup>†</sup>	5.6	+5/0.5,	120@60	8-pin mini DIN M	No	Black	2.9 x 2.6 x 1.9	6'/ <mark>2</mark>	1.2	UL/CSA	12.95	11.66	9.32	6.99
$  \ge  $					±12/0.13												
2	318756CH	Adcom	WM113TT	13	+5/0.86, ±12/0.3	115@60	5-pin DIN M	No	Black	4.9 x 3.0 x 2.2	6'/6'	1.3	UL/CSA	31.99	27.15	25.75	24.45
2-7	243088CH	Regal	RJM-551228		+5/0.9, +12/0.62		6-pin DIN M	No	Black	5.9 x 3.6 x 2.6	6'/6'	3.4	UL/CUL \$1	6.958.49	7.70	7.00	6.36
					-5/0.2, -28/0.16												

<sup>\*</sup> See accessory table-top power cord chart below when AC cord needed; refer to 1, 2 or 3 in "Cord (DC/AC)" column above for correct power cord

▲ Manufacturer and Manufacturer Cross Reference Number may vary except for ReliaPro, Mean Well, Phihong and GlobTek

	SAL	E	AC-T	O-L	ט טע	nregu	iated labi	ie-	·10	р Рои	<i>ler</i>	31	ippiie	S	Quai	ntity SA	IVE
Downer	Part Number	Brand A	Mfr. Cross Ref. No. 🔺	Power	Output Volts (VDC)/ Current (A)		Output Connector ID x OD/Polarity F = female; M = male	Pwr.	Color	Size (L" x W" x H")	Cords* (DC/AC)	Wt. (Ibs.)	Agency Approvals	1	Pric		100
						2	-Wire AC Input – Ur	reg	ulated								
	190051CH	APS	APS48EA114	10	+7/1.5	120@60	2.5mm x 5.5mm F 2	No	Black	3.4 x 2.3 x 1.9	6'/6'	1.9	UL/CUL	\$9.95	\$8.99	\$7.19	\$5.39
	243109CH	Regal	JK-91001-N	9	+9/1.0	120@60	Stripped & Tinned	No	Black	3.3 x 2.2 x 1.9	6'/6'	1.2	UL/CSA	13.95	12.56	11.30	10.17
	203182CH	Brother	A71222D	25	+11.5/2.2	120@60	2.1mm x 5.5mm F 1	No	Black	4.1 x 2.8 x 2.2	6'/6'	2.0	UL/CSA \$	5. <sup>45</sup> 3.85	3.48	3.17	2.88
	354941CH	Terayon	AD-121ADT	12	+12/1.0	120@60	2.1mm x 5.5mm F 2	No	Black	3.2 x 2.3 x 1.9	6'/6'	1.4	UL/CUL	14.95	13.46	12.11	10.90
	136565CH	Jameco	DDC1210P	12	+12/1.0	120@60	Stripped & Tinned	No	Black	3.2 x 2.2 x 1.9	6'/6'	1.2	No UL	13.95	12.56	10.04	7.53
2#6		Jameco	DC1215ST	18	+12/1.5	120@60	Stripped & Tinned	No	Black	3.1 x 2.1 x 1.9	6'/6'	1.5	UL	12.95	11.66	9.32	6.99
Š	143714CH	_	DC1220F1	24	+12/2.0	120@60	2.1mm x 5.5mm F 2	No	Black	3.8 x 2.8 x 2.3	6'/6'	2.2	CUL-No UL	14.95	13.46	12.11	10.90
20	143722CH	Jameco	DC1220F5	24	+12/2.0	120@60	2.5mm x 5.5mm F 2	No	Black	3.8 x 2.8 x 2.3	6'/6'	2.2	CUL-No UL	12.95	11.69	10.55	9.49
o c	143731CH	_	DC1220M3	24	+12/2.0	120@60	3.5mm M 2	No	Black	3.8 x 2.8 x 2.3	6'/6'	1.9	CUL-No UL	12.95	11.66	10.49	9.44
	220919CH	Jameco	EFU135170	23	+13.5/1.7	120@60	2.1mm x 5.5mm F 1	No	Black	3.4 x 2.7 x 2.1	6'/6'	1.8	CUL-No UL	4.85	4.45	3.99	3.65
	240127CH	_	FW3698 <b>む</b>	24	+24/1	120@60	2.5mm x 5.5mm F 2	No	Black	4.0 x 3.0 x 2.7	6'6"/7'2"	2.5	No UL	14.79	13.29	11.99	9.95
	139096CH	Jameco	DC2412F1	29	+24/1.2	120@60	2.1mm x 5.5mm F 2	No	Black	4.4 x 3.1 x 2.6	6'/6'	2.5	No UL	14.95	13.46	10.76	8.07
	173665CH	Skynet	DND-3005	15	+30/0.5	120-127@60	2.5mm x 5.5mm F 2	No	Black	3.0 x 2.5 x 2.2	5'9"/3'2"	1.4	UL/CUL	13.29	11.96	9.57	7.18
	205920CH	Skynet	DND-3012	30	+30/1.0	120-127@50-60	2.5mm x 5.5mm F 2	No	Black	4.0 x 2.9 x 2.5	6'/6'	1.7	UL/CUL	8.95	8.06	6.44	4.83
						3	-Wire AC Input – Ur	reg	ulated								
25	319222CH	_	SPU15A-3	15	+12/1.25	120@60	Stripped & Tinned	Yes	Black	3.6 x 1.5 x 1.4	15'3"/ <sup>2</sup>	_	UL/CUL/CE	\$15.65	\$14.45	\$13.75	\$12.99
7	157956CH	Everglow	EFU120150	18	+12/1.5	120@60	2.5mm x 5.5mm F 2	No	Black	3.4 x 2.7 x 2.2	6'/6'	2.0	UL	10.95	9.86	8.87	7.39
-	196306CH	_	A51813D	23	+18/1.3	120@60	2.5mm x 5.5mm F 2	No	Black	3.6 x 2.4 x 2.0	6'/6'	1.8	UL/CSA	12.95	11.69	9.34	7.04

<sup>▲</sup> Manufacturer and Manufacturer Cross Reference Number may vary except for ReliaPro, Mean Well, Phihong and GlobTek

\* See accessory table-top power cord chart below when AC cord needed; refer to 1, 2 or 3 in "Cord (DC/AC)" column above for correct power cord **☼** Blue Part No. = Limited Quantity Available



# \*\* Accessory Power Input Cords for **Table-Top Power Supplies**



**Quantity SAVE** 

Part No.	Ref. No.**	Description	Color	AWG	Certification	Cord Length	Wt. (lbs.)	Cord Type	1	10	100	250
38041CH	1	3-conductor power cord	Beige	18/3	UL/CSA	6'	0.4	SVT	\$3.49	\$3.15	\$2.79	\$2.49
38050CH	2	3-conductor power cord	Black	18/3	UL/CSA	6'	0.4	SVT	3.75	3.29	2.89	2.17
189587CH	3	2-conductor power cord	Black	18/2	UL/CSA	6'	0.3	SPT	2.95	2.65	2.39	2.15

For Additional Power Cords See Page 180.

**Over 99% of Our Products Are In Stock** 

Place your order by 6PM EST for same business day shipment.



# Medical Table-Top & Wall Switching AC-to-DC Power Supplies



**₽** (€

### GlobTek<sup>®</sup>

# **AC-to-DC Medical Table-Top** Regulated Switching Power Supplies

- Input voltage: 90-264VAC @ 47-63Hz
- 3-wire AC input
- **₽** Us (€) ( € • Leakage current: 0.1mA maximum
- Isolation voltage: 4,000VAC
- Regulation (line & load): ±5%
- Ripple and noise: 1% or 100mV, whichever is smaller
- 2.5mm x 5.5mm female center positive
- Cord length (DC/AC): 6' / use P/N 38050CH
- Size: 2.9"L x 2.0"W x 1.6"H
- UL/CUL/TUV/CE approved for medical applications



Part	Product	Power	Output		Pr	icing	
Number	Number	(W)	Volts (VDC)/Current (A)	1	10	50	100
230658CH	TR9CA2600CP	13.0	+5/2.6	\$32.95	\$29.66	\$23.72	\$22.48
230682CH	TR9CE1250CP	15.6	+12/1.3	32.95	29.65	26.69	23.99
230691CH	TR9CG1200CP	18.0	+15/1.2	32.95	29.65	26.69	23.99
230711CH	TR9CI750CP	16.8	+24/0.7	32.95	29.66	23.72	22.48
230738CH	TR9CA6000LCP	30.0	+5/6.0	52.95	47.66	38.12	32.08
230762CH	TR9CE4000LCP	49.2	+12/4.0	52.95	47.65	42.89	38.59
230771CH	TR9CG3333LCP	49.5	+15/3.3	52.95	47.66	38.12	32.08
230797CH	TR9CI2100LCP	50.4	+24/2.1	52.95	47.66	38.12	32.08

# GlobTek<sup>®</sup>

# AC-to-DC Medical Regulated **Switching Wall Adapters**

- Input voltage: 100/240VAC @ 47-63Hz
- 3-prong input plug Leakage current: 0.1mA maximum
- Isolation voltage: 4,000VAC
- Regulation (line & load): ±5%
- Ripple and noise: 1% or 100mV whichever is smaller
- 2.5mm x 5.5mm female center positive
- Output cord length: 6'
- Size: 2.9"H x 1.9"W x 1.6"D
- Agency approval: UL/CUL/TUV/CE approved for medical applications

Part	Product	Power	Output		Pric	ing	
Number	Number	(W)	Volts (VDC)/Current (A)	1	10	50	100
230818CH	WR92A2600LCP	13.0	+5@2.6 \$30.9	\$26.99	\$24.52	\$22.29	\$20.27
230842CH	WR92E1250LCP	15.6	+12@1.3	30.95	27.86	25.17	22.48
230851CH	WR92G1200LCP	18.0	+15@1.2 <b>\$30.9</b>	26.99	24.52	22.29	20.27
230877CH	WR92I750LCP	16.8	+24@0.75 <b>\$3</b> 0.9	26.99	24.52	22.29	20.27

For Open-Frame Medical Power Supplies see page 151.

# AC-to-DC Regulated Switching Wall Adapters

### Interchangeable Plug Wall Adapters Regulated output

- · Field changeable AC Plugs (sold separately, see below)
- Power-On LED
- Input voltage: 90-264VAC@47-63Hz
- Output connector: 2.1mm x 5.5mm female center positive

### 4 to 5-Watt Wall Adapters (Plug clip required, see below)

Applications: PDAs, digital cameras, MPEG players, personal electronics

Dimensions: 2.8"L x 1.8"W x 1.2"H

· Class B EMI 3 ) <u>@</u> 21 €

· Double insulated

- Efficiency: 60% min.
- · Weight: 0.3 lbs.

228814CH shown with plug clip not included



228849CH

shown ith plug clip

included

Part No.	Manufacturer	Product No.	Power (W)	Output Voltage (VDC)	Current (A)	Ripple (mVp-p)	Line Regulation	Load Regulation	1	5	25	100
228734CH	Phihong	PSA05R-033	4.0	3.3	1.2	50	±1%	±5%	\$16.69	\$15.15	\$13.79	\$12.44
228742CH	Phihong <b>⊙</b>	PSA05R-050	5.0	5.0	1.0	50	±1%	±5%	\$16.6 <sup>9</sup> 14.89	13.53	12.30	11.18
228751CH	Phihong	PSA05R-090	5.0	9.0	0.56	90	±1%	±5%	16.69	15.15	13.79	12.44
228769CH	Phihong≎	PSA05R-120	5.0	12.0	0.42	120	±1%	±5%	\$16.6 <sup>9</sup> 14.89	13.53	12.30	11.18

### 6 to 10-Watt Wall Adapters (Plug clip required, see below)

- Applications: wireless communications, portable equipment, digital camera, peripherals, networking
- Dimensions: 3.4"L x 2.1"W x 1.4"H

Manufacturer

Phihong

Phihong

Phihona

Phihong

Phihong

· Weight: 0.3 lbs.

Efficiency: 65% typical





Part No.	Manufacturer	Product No.	Power (W)	Output Voltage (VDC)	Current (A)	Ripple (mVp-p)	Line Regulation	Load Regulation	1	5	25	100
228785CH	Phihong <b>⊙</b>	PSA11R-033	6.6	3.3	2.0	50	±1%	±5%	\$16.99	\$15.42	\$14.02	\$12.75
228793CH	Phihong	PSA11R-050	10.0	5.0	2.0	50	±1%	±5%	16.99	15.42	14.01	12.74
228806CH	Phihong♥	PSA11R-090	10.0	9.0	1.1	90	±1%	±5%	16.99	15.42	14.01	12.74
228814CH	Phihong	PSA11R-120	10.0	12.0	0.83	120	±1%	±5%	17.69	16.07	15.15	14.24

50

120

150

180

240

Current (A) Ripple (mVp-p)

3.0

1 67

1.33

1.11

0.83

### 15 to 20-Watt Wall Adapters with LoadSense™ (Plug clip required, see below)

- Senses and controls the voltage out the connector, eliminating the effect of a voltage drop in the cable Efficiency: 70% Typical
- Applications: peripherals, portable equipment, gaming machines, point-of-sale equipment, network equipment

12 0

15.0

18.0

24.0

Power (W) Output Voltage (VDC)

• Dimensions: 3.9"L x 2.5"W x 1.4"H · Weight: 0.6 lbs.

Product No.

PSA21R-050

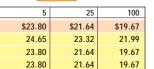
PSA21R-120

PSA21R-150 !

PSA21R-180 !

PSA21R-240!





# AC Plua Clins and Plua Clin Kits (sold separately, required for above adapters)

15.0

20.0

20.0

20.0

20.0

AC Flug C	iips aiiu ri	ug Ciip Ki	ns (suiu separatery, req	uneu	iui au	uve at	iapiei
Part No.	Manufacturer	Product No.	Description	1	10	50	100
229155CH	Phihong✿	RPA	USA Plug	\$.53	\$.51	\$.50	\$.49
229163CH	Phihong	RPE	European Plug	.61	.59	.58	.57
229171CH	Phihong✿	RPK	UK Plug	.99	.97	.94	.91
229180CH	Phihong	RPKIT	Kit w/ RPA/RPE/RPK/RPS (AUST)	2.65	2.39	2.32	2.25



Line Regulation

±1%

+1%

±1%

+1%

±1%



Load Regulation

±2%

+2%

±2%

±2%

±2%

\$26.19

27 15

26.19

26.19

26.19



23.80



19.67

Blue Part No. = Limited Quantity Available

www.Jameco.com

Our enhanced website offers more products. Find it quickly and order it easily.



Part No.

228831CH

228849CH

228857CH

229745CH

228873CH

# AC-to-DC Regulated Switching Wall Adapters

### JAMECO ReliaPro

# "Slim Line" Regulated Switching Wall Adapters

Compact in size and lightweight, they are the perfect power solution in all those applications where space is critical. And their high efficiency satisfies requirements for minimizing power losses. You no longer have to deal with traditional wall adapters that block unused outlets in wall plates and power strips/surge protectors.

EXCLUSIVE

We'll Brand the Adapters With Your Company Name Call 1-800-831-4242 for Details



227782CH

- 2-wire AC input
   Output cord length: 6'
   Input voltage: 100 240VAC@47-63Hz
   Output connector: 2.1mm x 5.5mm F2 (center positive)
- · Color: black · One year warranty

€) <b>(</b> €	

Part	Product	Output	Rating	Size	Wt.		Pric	ing	
Number	Number	Volts (VDC)	Current (mA)	(H"xW"xD")	(lbs.)	1	10	50	100
251563CH	S08AA033150	3.3	1500	2.5x1.1x1.7	0.2	\$10.95	\$9.94	\$9.17	\$8.85
251598CH	S15AA033250	3.3	2500	2.9x1.3x2.2	0.3	11.49	10.43	9.63	9.29
252700CH	S08AB050050	5.0	500	2.5x1.1x1.7	0.2	10.49	9.52	8.79	8.48
252718CH	S08AB050100	5.0	1000	2.5x1.1x1.7	0.2	10.95	9.94	9.17	8.85
252726CH	S08AB050150	5.0	1500	2.5x1.1x1.7	0.2	11.49	10.43	9.63	9.29
252734CH	S15AB050250	5.0	2500	2.9x1.3x2.2	0.3	11.95	10.85	9.99	9.64
252742CH	S08AD090025€	9.0	250	2.5x1.1x1.7	0.2	10.49	9.52	8.79	8.48
252751CH	S08AD090050	9.0	500	2.5x1.1x1.7	0.2	10.95	9.94	9.17	8.85
252769CH	S08AD090090	9.0	800	2.5x1.1x1.7	0.2	11.49	10.43	9.63	9.29
252777CH	S15AD090120	9.0	1200	2.9x1.3x2.2	0.3	11.95	10.85	9.99	9.64
252785CH	S15AS090170	9.0	1500	2.9x1.3x2.2	0.3	12.49	11.34	10.47	10.10
252793CH	S08AE120025	12.0	250	2.5x1.1x1.7	0.2	10.49	9.52	8.79	8.48
A Rhia - Lii	mited Ouantity Av	/ailahla							

Output Rating

Part	Product	Output	Rating	Size	Wt.		Pric	ing	
Number	Number	Volts (VDC)	Current (mA)	(H"xW"xD")	(lbs.)	1	10	50	100
252806CH	S08AE120050	12.0	500	2.5x1.1x1.7	0.2	\$10.95	\$9.94	\$9.17	\$8.85
252814CH	S08AE120070	12.0	600	2.5x1.1x1.7	0.2	11.49	10.43	9.63	9.29
252822CH	S15AE120100	12.0	1000	2.9x1.3x2.2	0.3	11.95	10.85	9.99	9.64
252831CH	S15AE120140	12.0	1250	2.9x1.3x2.2	0.3	12.95	11.76	10.85	10.47
252881CH	S08AF150013	15.0	130	2.5x1.1x1.7	0.2	10.49	9.52	8.79	8.48
252890CH	S08AF150050	15.0	500	2.5x1.1x1.7	0.2	11.49	10.43	9.63	9.29
254756CH	S15AF150080	15.0	800	2.9x1.3x2.2	0.2	11.95	10.85	9.99	9.64
252902CH	S15AF150120	15.0	1000	2.9x1.3x2.2	0.3	12.95	11.76	10.85	10.47
252849CH	S08AH240013	24.0	130	2.5x1.1x1.7	0.2	10.49	9.52	8.79	8.48
252857CH	S08AH240025	24.0	250	2.5x1.1x1.7	0.2	10.95	9.94	9.17	8.85
252865CH	S15AH240050	24.0	500	2.9x1.3x2.2	0.3	11.95	10.85	9.99	9.64
252873CH	S15AH240063	24.0	630	2.9x1.3x2.2	0.3	12.49	11.34	10.85	10.47

2-Wire AC Input – AC-to-DC Regulated Switching Wall Adapters

224590CH

We specialize in Wall Adapters - Call for additional OEM PRICING. We will change any power plug (pg 121) on any DC wall adapter listed (100 pc. minimum).

Polarity 1 + (center negative) Polarity 2 — — (center positive)

Output Connector



Female



249324CH

**Quantity SAVE** 

Part		Product	Voltage	Current		Input	Size	Case	Cord	Weight	Agency		Pric	ing	
Number	Brand▲	Number▲	(VDC)	(mA)	F = female; M = male	VAC @ Hz	H" x W" x D"	Color	Length	(lbs.)	Approvals	1	10	50	100
230543CH	Phihong	PSA05A-050	5	1000	2.1mm x 5.5mm F 2	90-264@47-63	2.4 x 1.8 x 1.0	Black	4'	0.4	UL/CUL	\$10.95	\$9.86	\$7.88	\$5.91
228881CH	Phihong	PSC10A-050	5	2000	2.1mm x 5.5mm F 2	90-132@57-63	2.9 x 1.9 x 1.4	Black	6'	0.4	UL/CUL	13.09	11.88	11.12	10.36
210892CH	ReliaPro	EPA101MU	5	2000	2.5mm x 5.5mm F 2	100-240@50-60	3.2 x 2.4 x 1.3	Black	6'	0.4	UL/CUL	12.95	11.66	9.32	6.99
210893CH	ReliaPro	S15AB050200	5	2000	2.5mm x 5.5mm F <b>2</b>	100-240@47-63	2.9 x 1.4 x 2.2	Black	6'	0.2	UL/CUL	12.95	11.69	10.49	8.75
236751CH	GlobTek	WR92A2600CCP†	5	2600	2.1mm x 5.5mm F 2	100-240@50-60	2.9 x 1.9 x 1.6	Black	6'	0.5	UL/CUL/TUV/CE	13.49	12.15	10.95	9.85
319880CH	Mean Well	ES18U05-PIJ	5	3000	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	12.29	11.35	10.62	9.89
228937CH	Phihong	PSC15A-050	5	3000	2.1mm x 5.5mm F 2	90-132@57-63	2.9 x 1.9 x 1.4	Black	6'	0.4	UL/CUL	13.55	12.29	11.35	10.95
228890CH	Phihong	PSC10A-090S	9	1100	2.1mm x 5.5mm F 2	90-132@57-63	2.9 x 1.9 x 1.4	Black	6'	0.4	UL/CUL	12.79	11.99	10.99	10.49
228945CH	Phihong	PSC15A-090	9	1600	2.1mm x 5.5mm F 2	90-132@57-63	2.9 x 1.9 x 1.4	Black	6'	0.4	UL/CUL	13.55	12.29	11.35	10.95
227782CH	Mean Well	KWM020-09B	9	1670	2.1mm x 5.5mm F 2	90-264@47-63	1.6 x 2.0 x 2.9	Black	6'	0.4	UL/CSA	13.55	12.29	11.35	9.89
319898CH	Mean Well	ES18U09-PIJ	9	2000	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	12.29	11.35	10.62	9.89
229753CH	Phihong	PSC10A-120S	12	830	2.1mm x 5.5mm F 2	90-132@ 57-63	2.9 x 1.9 x 1.4	Black	6'	0.4	UL/CUL	12.95	11.89	10.99	10.59
228953CH	Phihong	PSC15A-120	12	1250	2.1mm x 5.5mm F 2	90-132@57-63	2.9 x 1.9 x 1.4	Black	6'	0.4	UL/CUL	13.55	12.29	11.35	10.95
312864CH	Mean Well	ES18U12	12	1500	2.1mm x 5.5mm F <b>2</b>	100-240@50-60	3.2 x 2.1 x 1.3	Black	6'	0.2	UL/CUL/CE	12.29	11.35	10.62	9.89
319919CH	Mean Well	ES18U15-PIJ	12	1500	2.1mm x 5.5mm F <b>2</b>	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	12.29	11.35	10.62	9.25
228911CH	Phihong	PSC10A-150S <b>☉</b>	15	670	2.1mm x 5.5mm F 2	90-132@57-63	2.9 x 1.9 x 1.4	Black	6'	0.4	UL/CUL	12.49	11.35	10.32	9.38
224590CH	Mean Well	LI5D15B-P1J	15	1000	2.1mm x 5.5mm F <b>2</b>	90-240@50-60	3.2 x 2.2 x 1.3	Black	6'	0.5	UL/CSA	13.55	12.29	11.35	9.89
168487CH	Mean Well	KWM020188	18	1000	2.1mm x 5.5mm F 2	100-240@50-60	2.9 x 1.9 x 1.6	Black	6'	0.4	UL/CUL	17.95	16.19	13.75	10.35
228929CH	Phihong	PSC10A-240S	24	420	2.1mm x 5.5mm F 2	90-132@57-63	2.9 x 1.9 x 1.4	Black	6'	0.4	UL/CUL	11.95	11.46	10.99	10.49
228970CH	Phihong	PSC15A-240	24	620	2.1mm x 5.5mm F <b>2</b>	90-132@57-63	2.9 x 1.9 x 1.4	Black	6'	0.4	UL/CUL	13.55	12.29	11.35	10.95
319927CH	Mean Well	ES18U24-PIJ	24	750	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	12.29	11.35	10.62	9.25

					Other Manufactul	rers — Lin	nited Great	t Deal	ls						
225995CH	Delta Electronics	ADP-5DB	5	1000	2.5mm x 5.5mm F 2	100-120@50-60	2.5 x 1.8 x 1.1	Black	6'	0.2	UL	\$10.95	\$9.85	\$7.89	\$5.89
308048CH	Potrans	UWP010210500	5	1500	2.1mm x 5.5mm right angle F 2	100-240@60	2.8 x 1.4 x 2.1	Black	10'2"	0.5	UL/CUL	11.75	9.88	9.51	8.55
216442CH	AK II Power Supply	A05C1-05MP	5	1600	2.5mm x 5.5mm F 2	100-240@50-60	2.2 x 1.8 x 1.1	Black	6'	0.4	UL/CUL/CE	12.95	11.65	10.49	9.49
189190CH	Interex	EPA101MU-05B	5	2000	2.5mm x 5.5mm F 1	100-240@50-60	3.2 x 2.8 x 1.3	Black	6'	0.4	UL/CUL	12.49	11.24	8.99	6.74
305066CH	Ault	SC102TA0503B01	5	3000	2.5mm x 5.5mm F 2	100-240@47-63	2.9 x 2.0 x 1.6	Black	6'	0.5	UL/CUL	11.65	10.76	10.06	9.36
308671CH	Highpower	HPW-1009U	9	1110	2.1mm x 5.5mm F 2	100-240@50-60	3.0 x 2.0 x 1.2	Black	6'	0.3	UL/CUL/TUV/CE	11.89	10.97	10.24	9.50
249324CH	Philips	A600M101	12	500	2.1mm x 5.5mm F 2	100-240@50-60	2.4 x 1.8 x 1.0	Black	6'	0.4	UL/CSA	13.19	11.89	9.49	7.15
298054CH	DVE	DSA-009-12A	12	750	2.1mm x 5.5mm F 2	90-132@47-63	2.7 x 1.1 x 1.8	Black	6'	0.3	UL/CUL	11.89	10.97	10.24	9.49
235096CH	DVE	DSA-0151A-12S	12	1250	2.1mm x 5.5mm F 2	100-120@50-60	3.2 x 2.1 x 1.4	Black	6'	0.3	UL/CUL	13.49	12.14	9.71	7.28
320311CH	Gilat	E040105E	24	1670	2.1mm x 5.5mm F 2	100-240@50-60	3.9 x 2.4 x 1.6	Black	6'	0.7	UL/CUL	14.95	12.95	10.95	9.95

▲ Brand and product number may vary except for ReliaPro, Mean Well, Phihong and GlobTek † 3-wire AC input

AC-to-DC Wall Adapters continued on pages 174 - 177

# AC-to-DC Regulated Linear Wall Adapters







· One-year warranty



# 2-Wire AC Input – AC-to-DC Regulated Linear Wall Adapters

We specialize in Wall Adapters – Call for additional OEM PRICING.
We will change any power plug (pg 121) on any DC wall adapter listed (100 pc. minimum).

Polarity 1 (+) (center negative) Polarity 2 (-) (center positive)









Quantity .	SAV	Έ
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			Output	t Rating	Output Connector				Output						
Part		Product	<u> </u>	Current	•	Input	Size	Case	Cord	Weight	Agency		Pric	ing	
Number	Brand▲	Number▲	(VDC)	(mA)	F = female; M = male	VAC @ Hz	H" x W" x D"	Color	Length	(lbs.)	Approvals	1	10	50	100
164101CH	ReliaPro	RDU050050	5	500	2.1mm x 5.5mm F 2	120@60	2.8 x 2.0 x 1.6	Black	6'	0.6	UL/CSA	\$9.95	\$8.96	\$8.06	\$7.25
220935CH	ReliaPro	DDU050060	5	600	2.1mm x 5.5mm F 1	120@60	2.7 x 2.2 x 1.9	Black	6'	0.8	UL/CUL	12.29	11.06	8.85	6.64
196411CH	ReliaPro	DDU050100	5	1000	2.1mm x 5.5mm F 2	120@60	3.3 x 2.2 x 1.9	Ivory	6'	1.0	UL/CUL	10.95	9.86	7.88	5.91
168605CH	ReliaPro	DBU050100	5	1000	2.5mm x 5.5mm F 2	120@60	3.3 x 2.2 x 1.9	Black	6'	1.2	UL/CSA	11.39	10.49	9.65	8.29
190512CH	ReliaPro	DBU60020-H3570	6	200	2.1mm x 5.5mm F 2	120@60	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CUL	6.95	6.26	5.44	4.06
220898CH	ReliaPro	DCU120020	12	200	2.1mm x 5.5mm F 1	120@60	2.5 x 2.0 x 1.7	Black	6'	0.5	UL/CUL	7.85	7.06	5.65	4.24
162996CH	ReliaPro	DDU120050	12	500	2.1mm x 5.5mm F 2	120@60	3.2 x 2.2 x 1.9	Black	6'	0.9	UL/CUL	9.95	8.96	8.06	7.25
170245CH	ReliaPro	RDU120100	12	1000	2.1mm x 5.5mm F 2	120@60	3.2 x 2.3 x 2.0	Black	6'	1.2	UL/CUL	13.95	12.59	11.35	10.19
249244CH	ReliaPro	DFU120150	12	1500	2.1mm x 5.5mm F 2	108-132@50-60	3.3 x 2.7 x 2.2	Black	6'	0.4	UL/CUL	14.95	13.49	12.15	10.95
174861CH	ReliaPro	DFU240050	24	500	2.1mm x 5.5mm F 2	120@60	3.4 x 2.7 x 2.2	Black	6'	1.3	UL/CUL	11.95	10.76	8.60	6.45
174879CH	ReliaPro	RFU240050	24	500	2.5mm x 5.5mm F 2	120@60	3.4 x 2.7 x 2.2	Black	6'	1.3	UL/CUL	11.95	10.79	9.69	8.75

					Other Manufactur	ers — Liii	iileu Great	Dear	3						
236435CH	APX	AP2814	5	300	1.3mm x 3.5mm right angle F 2	120@60	2.9 x 1.9 x 1.6	Black	6'	0.6	UL/CSA	\$7.15	\$6.45	\$5.15	\$3.85
319847CH	_	DV-530R	5	300	2.5mm x 5.5mm F 2	120@60	2.4 x 2.0 x 1.6	Black	6'	0.5	UL/CSA	7.15	6.45	5.79	4.81
289182CH	AESP	AD-5600RDU	5	600	2.1mm x 5.5mm F 2	120@60	3.1 x 2.8 x 1.9	Black	6'	0.9	UL/CUL	10.49	9.45	7.55	5.65
319986CH	_	DV-580R	5	800	2.5mm x 5.5mm F 2	120@60	3.2 x 2.2 x 2.0	Black	6'	1.0	UL/CUL	9.95	8.95	8.05	7.25
171301CH	Imitation	JOD48U08	5	1000	2.1mm x 5.5mm F 2	120@60	3.1 x 2.9 x 2.0	Black	6'	1.0	UL/CUL	10.95	9.89	8.89	7.99
297941CH	_	JOD-480-08	5	1000	2.5mm x 5.5mm F 2	120@60	3.1 x 2.3 x 1.9	Black	6'	0.9	UL	10.99	9.24	8.90	8.00
228726CH	ORB	777-052000S-UF	5	2000	2.1mm x 5.5mm F 2	100@50-60	3.1 x 2.1 x 1.5	Black	5'	0.5	UL/CUL	12.95	11.66	10.49	9.44
308689CH	Fairway Elec.	WN10A-050	5	2000	2.5mm x 5.5mm F 2	100-240@50-60	3.0 x 2.0 x 1.2	Black	6'	0.4	UL/CUL/TUV/CE	11.39	10.45	9.98	9.50
248743CH	MEI	EPA-101M-05A	5	2500	2.1mm x 5.5mm F 2	120@60	3.2 x 2.4 x 1.4	Black	6'	0.5	UL/CUL	13.49	12.14	9.71	7.28
190511CH	Salom Electric	SADB-0885	6	200	2.1mm x 5.5mm F 2	115@60	2.6 x 1.8 x 1.5	Black	6'	0.4	UL/CUL	6.25	5.65	4.89	3.65
283573CH	_	DC600500	6	500	2.1mm x 5.5mm F 2	120@60	3.1 x 2.0 x 1.7	Black	6'	0.6	UL/CSA	7.85	7.06	5.65	4.24
190529CH	NOMA	AD9123	9	250	2.5mm x 5.5mm right angle F 2	120@60	2.5 x 2.0 x 1.6	Black	12'	0.5	UL/CSA	6.49	5.85	4.65	3.50

Other Manufacturers — Limited Great Deals

▲ Brand and Product Number may vary except for ReliaPro, Mean Well, Phihong and Globtek

# 2-Wire AC Input - AC-to-DC Unregulated Wall Adapters

JAMECO Relia Pro

280250CH

ReliaPro

DDU075110



Polarity 1 + (center negative)

We specialize in Wall Adapters – Call for additional OEM PRICING.
We will change any power plug (pg 121) on any DC wall adapter listed (100 pc. minimum).

• Input: 120VAC @ 60Hz

2.1mm x 5.5mm F 2

1100

One-year warranty

Black

Polarity 2 — + (center positive)





6.29

**Quantity SAVE** 

UL/CUI

			Output	Rating	Output Connector			Output						
Part		Product	<u> </u>	Current	ID x OD/Polarity	Size	Case	Cord	Weight	Agency		Pric	ing	
Number	Brand	Number	(VDC)	(mA)	F = female; M = male	H" x W" x D"	Color	Length	(lbs.)	Approvals	1	10	50	100
112070CH	ReliaPro	DBU050022	5	225	2.5mm x 5.5mm F 2	1.9 x 2.2 x 2.0	Black	7'	0.3	UL/CSA	\$7.29	\$6.59	\$5.95	\$5.35
155601CH	ReliaPro	DCU050100	5	1000	2.1mm x 5.5mm F 2	2.6 x 2.0 x 1.7	Black	6'	0.7	UL/CSA	5.19	4.67	4.20	3.50
119255CH	ReliaPro	DBU060050	6	500	2.1mm x 5.5mm F 1	2.3 x 1.8 x 1.8	Black	6'	0.6	UL/CUL	4.29	3.86	3.47	3.13
101266CH	ReliaPro	DBU060050	6	500	2.1mm x 5.5mm F 2	2.4 x 1.9 x 1.6	Black	6'	0.4	UL/CSA	4.29	3.86	3.47	3.13
15544CH	ReliaPro	DBU060050	6	500	3.5mm M 2	2.4 x 1.9 x 1.6	Black	6'	0.4	UL/CSA	4.29	3.86	3.47	3.13
147707CH	ReliaPro	DBU060080	6	800	2.1mm x 5.5mm F 2	2.3 x 2.0 x 1.6	Black	6'	0.6	UL/CSA	4.95	4.49	4.05	3.65
220943CH	ReliaPro	DCU060120	6	1200	2.1mm x 5.5mm F 1	2.5 x 2.0 x 1.7	Black	6'	0.7	UL/CUL	6.49	5.84	4.67	3.50
220951CH	ReliaPro	DCU075100	7.5	1000	2.1mm x 5.5mm F 1	2.5 x 2.0 x 1.7	Black	6'	0.6	UL/CUI	9.19	8.27	7.44	6.20

					Other Manufacturers	— Limited	Great D	eals						
237227CH	Freeplay	DX351307	4.5	100	1.3mm x 3.5mm F 2	2.4 x 1.7 x 1.4	Black	6'	0.4	UL/CSA \$4	49\$1.95	\$1.76	\$1.40	\$1.05
243070CH	Regal	WH045300-10N	4.5	300	2.1mm x 5.5mm F 1	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CSA \$6		2.66	2.12	1.59
320303CH	Globtek	WRIA1000CCP-N	5	1000	2.1mm x 5.5mm F 2	3.2 x 2.3 x 1.9	Black	6'	1.0	UL/CUL .	10.95	9.89	8.89	7.99
219651CH	_	FE4823-050E120	5	1200	2.5mm x 5.5mm F 2	3.5 x 2.4 x 1.9	Black	6'	1.2	UL/CUL	5.15	4.76	3.81	2.86
308697CH	Both Hand	MI-10505	5	2000	2.1mm x 5.5mm F 2	2.2 x 1.9 x 1.0	Black	6'	0.3	UL/CUL	10.65	9.82	9.44	8.50
237251CH	Freeplay	DPX350817	6	100	2.1mm x 5.5mm F 2	2.4 x 1.7 x 1.4	Black	6'	0.4	UL/CSA	3.95	3.59	2.85	2.15
243117CH	Regal	WH060200-10N	6	200	2.5mm x 5.5mm F 1	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CSA	3.95	3.59	2.85	2.15
302439CH	_	AD-0630M	6	300	2.1mm x 5.5mm F 2	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CSA	3.99	3.56	3.13	2.80
201451CH	APX Technologies	AP4733	6	700	2.1mm x 5.5mm F 2	2.6 x 1.9 x 1.4	Black	6'	0.5	UL/CUL	4.95	3.95	2.95	2.19
227951CH	_	JOD-48U-33	6	2100	2.1mm x 5.5mm F 2	3.3 x 2.2 x 1.9	Black	6'	1.3	UL/CUL	7.95	7.16	5.72	4.29
248751CH	Uniq	AD-071A	7.5	1000	2.5mm x 5.5mm F 2	2.3 x 2.3 x 1.9	Black	6'	0.9	UL/CSA	6.49	5.85	4.69	3.50
249279CH	AESP	FO-AC-4305	7.5	1000	2.1mm x 5.5mm right angle F 2	3.2 x 2.0 x 1.7	Black	6'	0.8	UL/CUL	6.95	6.25	5.65	5.09
230623CH	-	MKD-48752100	7.5	2100	2.1mm x 5.5mm F 2	3.3 x 2.2 x 1.9	Black	6'	1.3	UL/CUL	7.95	7.15	5.75	4.29

More AC-to-DC Wall Adapters listed on pages 173 & 175 - 177



4.30

# AC-to-DC Unregulated Wall Adapters

JAMECO" **Relia**Pro

We specialize in Wall Adapters - Call for additional OEM PRICING. We will change any power plug (pg 121) on any DC wall adapter listed (100 pc. minimum).











• Input: 120VAC @ 60Hz





Part		Product	Output	Rating Current	Output Connector ID x OD/Polarity	Size	Case	Output Cord	Weight	Agency		Pric	ing	
Number	Brand	Number	(VDC)		F = female; M = male	H" x W" x D"	Color	Length	(lbs.)	Approvals	1	10	50	100
127511CH	ReliaPro	DDU080100	8	1000	2.1mm x 5.5mm F 2	3.1 x 2.5 x 2.1	Black	6'	1.3	UL	\$7.95	\$7.19	\$6.45	\$5.85
100845CH	ReliaPro	DBU090020	9	200	2.1mm x 5.5mm F 2	2.1 x 1.7 x 1.5	Black	6'	0.4	UL/CSA	3.95	3.59	2.89	2.15
134025CH	ReliaPro	DBU090020	9	200	2.1mm x 5.5mm F 1	2.1 x 1.7 x 1.6	Black	6'	0.4	UL/CSA	4.95	4.46	4.01	3.61
100837CH	ReliaPro	DBU090020	9	200	3.5mm M 2	2.6 x 1.8 x 1.6	Black	6'	0.4	UL/CSA	3.95	3.59	3.25	2.95
133891CH	ReliaPro	DBU090030	9	300	2.1mm x 5.5mm F 2	2.0 x 1.5 x 1.5	Black	6'	0.4	UL/CSA	3.95	3.56	2.84	(2.13)
189238CH	ReliaPro	DBU090030	9	300	2.5mm x 5.5mm F 2	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CUL	4.25	3.59	2.95	2.35
318676CH	ReliaPro	DBU090030	9	300	2.5mm x 5.5mm F 1	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CUL	3.89	3.48	3.06	2.91
202155CH	ReliaPro	DBU090035	9	350	2.1mm x 5.5mm F 2	2.2 x 1.7 x 1.5	Black	6'	0.3	UL/CUL	3.29	2.96	2.66	2.40
140636CH	ReliaPro	DCU090040	9	400	2.5mm x 5.5mm F 2	2.6 x 2.0 x 2.0	Black	6'	0.6	UL/CSA	4.19	3.79	3.39	3.05
202171CH	ReliaPro	DCU090045	9	450	2.1mm x 5.5mm F 2	3.3 x 2.9 x 2.3	Black	6'	0.5	UL/CUL	3.95	3.59	3.25	2.89
163627CH	ReliaPro	DCU090050	9	500	2.1mm x 5.5mm F 1	2.5 x 1.9 x 1.7	Black	6'	0.6	UL/CSA	5.49	4.95	4.45	3.95
100853CH	ReliaPro	DCU090050	9	500	2.1mm x 5.5mm F 2	2.5 x 1.9 x 1.7	Black	6'	0.6	UL/CSA	4.95	4.46	3.56	(2.67)
147731CH	ReliaPro	AD-11950	9	500	2.1mm x 5.5mm F 2	2.6 x 2.0 x 1.7	Beige	6'	0.6	UL/CSA	4.29	3.86	3.47	3.13
236937CH	ReliaPro	DCU090050A	1 9	500	2.5mm x 5.5mm right angle F 2	2.5 x 2.0 x 1.7	Black	6'	0.4	UL/CSA	5.79	5.21	4.17	3.13
15561CH	ReliaPro	DCU090050	i 9	500	3.5mm M 2	2.5 x 2.0 x 1.6	Black	6'	0.5	UL/CSA	4.85	4.36	3.93	3.54
202180CH	ReliaPro	DCU090060	9	600	2.1mm x 5.5mm F 2	3.3 x 2.9 x 2.3	Black	6'	0.6	UL/CUL	4.89	4.39	3.95	3.35
100175CH	ReliaPro	DCU090060	9	600	2.5mm x 5.5mm F 2	2.7 x 2.0 x 1.7	Black	6'	0.6	UL/CSA	5.49	4.75	4.25	3.95
202198CH	ReliaPro	DCU09080	9	800	2.1mm x 5.5mm F 2	3.3 x 2.9 x 2.3	Black	6'	0.6	UL/CUL	6.95	6.26	5.00	3.75
127504CH	ReliaPro	DC910F5-VP	9	1000	2.5mm x 5.5mm F <b>2</b>	2.6 x 2.4 x 2.0	Black	6'	0.9	UL/CSA	7.49	6.75	6.05	5.05
15587CH	ReliaPro	DDU090100	9	1000	3.5mm M 2	2.6 x 2.4 x 2.0	Black	6'	0.9	UL/CSA	7.95	7.16	5.72	4.29
130526CH	ReliaPro	DDE090120	9	1200	2.1mm x 5.5mm F 1	2.4 x 2.0 x 1.8	Black	6'	1.0	UL/CSA	8.95	8.06	6.44	4.83
143693CH	ReliaPro	DFU0901500A3040	9	1500	2.1mm x 5.5mm F 2	3.3 x 2.5 x 2.3	Black	6'	1.3	UL/CSA	9.95	8.95	6.95	(5.19)
163993CH	ReliaPro	DBU120020	12	200	2.1mm x 5.5mm right angle F 1	2.4 x 1.7 x 1.6	Black	6'	0.4	UL/CSA	4.79	4.31	3.88	3.49
100095CH	ReliaPro	DBU120020	1 12	200	2.1mm x 5.5mm F 2	2.1 x 1.8 x 1.5	Black	6'	0.4	UL/CSA	3.95	3.56	3.20	2.88
158043CH	ReliaPro	DBU120020	12	200	2.1mm x 5.5mm right angle F 2	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CSA	4.49	4.04	3.64	3.27
220433CH	ReliaPro	DBU120020	12	200	2.5mm x 5.5mm right angle F 2	2.2 x 1.7 x 1.5	Lt. Gray	6'	0.4	UL/CSA	4.39	3.95	3.56	3.20
185658CH	ReliaPro	DBU120020	12	200	2.5mm x 5.5mm right angle F 2	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CSA	4.79	4.31	3.45	2.59
219601CH	ReliaPro	DCU120025	12	250	Stripped & tinned	2.5 x 2.0 x 1.7	Dk. Gray	6'	0.4	UL/CUL	3.95	3.56	2.84	2.13
318692CH	ReliaPro	DBU120030	1 12	300	1.3mm x 3.5mm right angle F 2	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CSA	4.19	3.39	2.99	2.29
127976CH	ReliaPro	DCU120030	12	300	2.1mm x 5.5mm F 2	2.6 x 1.8 x 1.6	Black	6'	0.7	UL/CSA	4.75	4.29	3.85	3.25
249236CH	ReliaPro	DBU120030	12	300	2.5mm x 5.5mm right angle F 2	2.2 x 1.7 x 1.5	Black	6'	0.5	UL/CUL	4.85	3.85	3.39	3.09
190502CH	ReliaPro	ADA-410	12	400	2.1mm x 5.5mm right angle F 2	2.6 x 2.1 x 1.9	Black	6'	0.5	UL/CUL	6.69	6.02	5.42	4.51
114825CH	ReliaPro	DCU120050	12	500	Connector end may vary	2.5 x 2.0 x 1.7	Black	6'	0.6	UL/CUL	4.75	4.35	3.45	2.59
15368CH	ReliaPro	DCU120050	1 12	500	2.1mm x 5.5mm F 1	2.5 x 1.9 x 1.6	Black	6'	0.6	UL/CSA	6.49	5.85	5.29	4.75
102496CH	ReliaPro	DCU120050	12	500	2.1mm x 5.5mm F 2	2.5 x 1.9 x 1.6	Black	6'	0.6	UL/CSA	5.25	4.16	3.64	3.46
131300CH	ReliaPro	DCU120050	12	500	2.1mm x 5.5mm right angle F 2	2.6 x 1.9 x 1.7	Beige Black	6'	0.6 0.6	UL/CSA UL/CSA	5.49	4.94	4.45	4.00
102277CH	ReliaPro	DCU120050U	12	500	2.5mm x 5.5mm F 2 3.5mm M 2	2.5 x 2.1 x 1.7		6'			5.19 5.19	4.67	4.20 3.74	3.78
17267CH	ReliaPro	DCU120050	12	500		2.5 x 1.9 x 1.6	Black	6'	0.6	UL/CSA UL/CUL		4.67		2.80
202201CH	ReliaPro	DCU120060	12	600 700	2.1mm x 5.5mm F 2	3.3 x 2.9 x 2.3	Black Black	6'	0.6	UL/CUL	4.95 5.19	4.45	3.55	2.69
202219CH 117479CH	ReliaPro	DCU120070	12	800	2.1mm x 5.5mm F 2	3.3 x 2.9 x 2.3	Black	6'	0.6	UL/CSA	6.95	4.67 6.29	3.74 5.65	
129331CH	ReliaPro ReliaPro	DDU120080 DDU120080	12	800	2.1mm x 5.5mm F 2 2.5mm x 5.5mm F 2	3.0 x 2.3 x 2.0 3.0 x 2.3 x 2.0	Black	6,	0.9	UL/CSA UL/CSA	5.49	4.95	4.45	5.09 4.05
121232CH	ReliaPro	DDU120080	1 12	800	3.5mm M <b>2</b>	2.6 x 2.4 x 2.0	Black	6'	0.9	UL/CSA	6.19	5.57	5.01	4.03
121232011	IXCIIII 10	DD0120000	12	000					0.7	OLIOSA	0.17	3.37	3.01	4.10
					Other Manufacturers —	Limited Gre	eat De	als						
308056CH	_	A40910M	8.7	1000	2.1mm x 5.5mm F 2	2.6 x 2.4 x 2.0	Black	6'	1.0	UL/CSA	\$7.95	\$7.15	\$6.45	\$5.35
265480CH	Uniden	AD-600B	9	100	2.1mm x 5.5mm right angle F 2	2.1 x 1.4 x 1.4	Black	6'	0.3	UL/CSA	3.49	3.14	2.51	1.88
265498CH	Uniden	AD-600W	9	100	2.1mm x 5.5mm right angle F 2	2.1 x 1.4 x 1.4	White	6'	0.3	UL/CSA	3.49	3.14	2.51	1.88
237243CH	Freeplay	DPX351322	9	200	2.1mm x 5.5mm F 2	2.4 x 1.7 x 1.4	Black	6'	0.4	UL/CSA	3.79	3.45	3.15	2.79
191767CH	_	CTPS350903002C0	9	300	1.3mm x 3.5mm right angle F 2	2.3 x 1.8 x 1.5	Black	6'	0.4	UL/CSA	4.19	3.77	3.02	2.26
189237CH	ACI World	35-9-300C	9	300	2.5mm x 5.5mm F 2	2.2 x 1.7 x 1.4	Black	6'	0.4	UL/CSA	4.25	3.25	2.95	2.35
169519CH	Panasonic	KX-TCA1	9	350	2.1mm x 5.5mm right angle F 1	2.7 x 1.7 x 1.6	Dk. Gray	6'	0.4	UL/CSA	3.49	3.14	2.51	1.88
319177CH	Explore Tech.	41-9-5000	9	500	2.1mm x 5.5mm F 2	2.5 x 2.0 x 1.6	Black	6'	0.6	UL/CSA	3.59	2.95	2.59	2.49
170270CH	Panasonic	PQLV1	9	500	2.1mm x 5.5mm right angle F 1	2.7 x 1.9 x 1.8	Gray	6'	0.6	UL/CSA	4.49	4.05	3.45	2.55
164929CH	_	DDU090100	9	900	2.1mm x 5.5mm F 1	2.7 x 2.3 x 1.8	Black	6'	0.9	UL/CUL	7.95	7.15	5.75	4.29
100888CH	Everglow	DDU090100	9	1000	2.1mm x 5.5mm F 2	2.6 x 2.4 x 2.0	Black	6'	1.0	UL/CSA	7.95	7.16	6.44	5.80
227774CH	GTE	ADP2108GT	9	1000	2.1mm x 5.5mm right angle F 2	2.5 x 2.2 x 1.9	Black	6'	0.9	UL/CUL	7.95	7.15	5.75	4.29
285958CH	APX	AP2072P	9	1000	2.5mm x 5.5mm F 2	2.5 x 2.3 x 1.9	Black	6'	0.9	UL/CUL	6.95	6.25	4.99	3.75
237067CH	APS	D9-15-950	9	1500	2.5mm x 5.5mm F 2	3.1 x 2.3 x 1.9	Black	6'	1.3	UL/CUL	9.95	8.96	7.16	5.37

More AC-to-DC Wall Adapters listed on pages 173 - 174 & 176 - 177

# AC-to-DC Unregulated Wall Adapters (Continued)



Female

Color Code Legend New Sale Lower\$ QtySave

**Relia**Pro

**Quantity SAVE** 

We specialize in Wall Adapters - Call for additional OEM PRICING. We will change any power plug (pg 121) on any DC wall adapter listed (100 pc. minimum).



EXCLUSIVE

232258CH 249121CH

• Input: 120VAC @ 60Hz · One-year warranty **( ( ( ) ( )** 220901CH

217541CH

	1		Outmust I	Doting	Output Compostor			Outmut						
Part Number	Brand▲	Product Number	Output F Voltage (VDC)	Current	Output Connector ID x OD/Polarity F = female; M = male	Size H" x W" x D"	Case Color	Output Cord Length	Weight (lbs.)	Agency Approvals	1	Prio	ing 50	100
100870CH	ReliaPro	DDU120100	12	T .	2.1mm x 5.5mm F <b>2</b>	3.1 x 2.4 x 2.0	Black	6'	0.9	UL/CSA	\$8.19	\$7.37	\$6.63	\$5.97
105478CH	ReliaPro	DDU120100	12	1	2.5mm x 5.5mm F <b>2</b>	3.1 x 2.4 x 2.0	Black	6'	1.0	UL/CSA	7.49	6.74	6.07	5.46
15392CH	ReliaPro	DDU120100	12		3.5mm M 2	3.3 x 2.4 x 2.0	Black	6'	1.0	UL/CSA	7.95	7.16	6.44	5.80
213559CH	ReliaPro	GPC-081	12		Auto lighter power outlet	4.3 x 2.2 x 1.9	Black	_	1.1	UL/CUL	13.95	12.56	10.04	7.53
196779CH	ReliaPro	DDU120120	12		2.5mm x 5.5mm F <b>2</b>	3.0 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	8.79	7.91	7.10	6.29
203036CH	ReliaPro	DDU120150	12	1	2.1mm x 5.5mm F 1	3.3 x 2.2 x 1.9	Black	6'	1.5	UL/CUL	12.95	11.69	9.35	6.99
313226CH	ReliaPro	DFU120150	12		Stripped & tinned (w/ on-off switch)	3.4 x 2.6 x 2.2	Black	8,	1.5	UL	10.39	9.45	8.49	7.55
136881CH	ReliaPro	DFU120150	12		2.1mm x 5.5mm F 2	3.4 x 2.7 x 2.2	Black	6'	1.5	UL	12.95	11.69	10.55	9.45
101291CH	ReliaPro	D571201500U	12	•	2.5mm x 5.5mm F <b>2</b>	3.4 x 2.7 x 2.2	Black	6'	1.5	UL	10.39	9.35	8.42	7.5
308099CH	ReliaPro	DDU135100	13.5		2.1mm x 5.5mm F <b>2</b>	2.9 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	8.15	7.36	6.51	5.6
212812CH	ReliaPro	DBU140020	14	200	2.1mm x 5.5mm F <b>2</b>	2.2 x 1.7 x 1.5	Black	6'	0.8	UL/CUL	3.05	2.79	2.55	2.2
212821CH	ReliaPro	DBU140030	14		2.1mm x 5.5mm F <b>2</b>	2.2 x 1.7 x 1.5	Black	6'	0.8	UL/CUL	4.49	4.04	3.64	3.0
123932CH	ReliaPro	DDU140070	14	i	2.1mm x 5.5mm F 2	2.6 x 2.4 x 2.0	Black	6'	1.0	UL/CSA	8.49	7.65	6.89	6.19
202243CH	ReliaPro	DDU140070	14	•	2.5mm x 5.5mm F 2	3.9 x 2.9 x 2.4	Black	6'	0.8	UL/CUL	7.25	6.52	5.22	3.92
202243CH	ReliaPro	DDU140100	14	1000	2.1mm x 5.5mm F <b>2</b>	3.9 x 2.9 x 2.4	Black	6'	0.9	UL/CUL	7.95	7.16	5.72	4.29
190001CH	ReliaPro	DCU150050	15	500	2.1mm x 5.5mm F <b>2</b>	2.3 x 2.4 x 1.9	Black	6'	0.7	UL/CSA	6.49	5.84	4.67	3.5
189982CH	ReliaPro	DCU150050	15		2.5mm x 5.5mm F 2	2.3 x 2.4 x 1.9	Black	6'	0.8	UL/CSA	6.95	6.26	5.00	3.7
155803CH	ReliaPro	DDU150060	15		2.1mm x 5.5mm F 1	2.9 x 2.3 x 1.9	Black	6'	1.0	UL/CSA	8.95	8.06	6.44	4.8
232258CH	ReliaPro	DDU150080	15	:	2.1mm x 5.5mm F 1	2.9 x 2.3 x 1.9	Black	6,	1.0	UL	8.49	7.64	6.11	4.5
203502CH	ReliaPro	DDU150080	15	900	2.5mm x 5.5mm F <b>2</b>	2.6 x 2.2 x 1.9	Black	6,	1.0	UL/CSA	6.95	6.25	5.49	4.5
151992CH	ReliaPro	DDU150090	15		2.1mm x 5.5mm F 1	3.1 x 2.0 x 1.9		6'	1.5	UL/CSA	8.49	7.64	6.11	4.7
							Beige							6.9
191652CH	ReliaPro	DDU150100	15		2.1mm x 5.5mm F 2	3.3 x 2.2 x 1.9	Black	6'	1.0	UL/CSA	9.59	8.65	7.79	1
162317CH	ReliaPro	DDU165050	16		1 2.1mm x 5.5mm F 2	2.2 x 2.4 x 1.9	Black	6'	0.8	UL/CSA	7.95	6.95	6.25	5.5
181729CH	ReliaPro	DCU180025	18		2.1mm x 5.5mm F 2	2.6 x 2.0 x 1.6	Black	6'	0.6	UL	6.95	6.26	5.00	3.7
163272CH	ReliaPro	DDU180050-2	18	500	2.1mm x 5.5mm F 2	2.6 x 2.3 x 1.9	Black	6'	0.8	UL/CUL	10.95	9.86	8.38	6.7
206958CH	ReliaPro	DDU180100	18		2.5mm x 5.5mm F 2	3.3 x 2.2 x 1.9	Black	6'	1.4	UL/CUL	9.95	8.99	7.19	5.3
102285CH	ReliaPro	DDU240040	24		2.1mm x 5.5mm F 2	3.0 x 2.3 x 2.0	Black	6'	0.9	UL/CUL	7.95	7.19	6.45	5.8
163635CH	ReliaPro	DDU240050	24		12.1mm x 5.5mm F 1	3.1 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	8.95	8.06	6.44	4.8
191556CH	ReliaPro	DDU240050	24		2.5mm x 5.5mm F 2	3.1 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	8.95	8.09	7.25	6.0
139088CH	ReliaPro	DDU240050	24	500	3.5mm M 2	3.1 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	7.95	7.16	5.72	4.2
168495CH	ReliaPro	DFU240080	24		2.1mm x 5.5mm F 2	2.9 x 1.9 x 1.6	Black	6'	0.4	UL/CUL/TUV	10.95	9.86	7.88	5.9
220960CH	ReliaPro	DFU240100	24	1	2.1mm x 5.5mm F 1	3.4 x 2.7 x 2.2	Black	6'	1.6	UL/CUL	13.89	12.95	11.39	10.8
249130CH	ReliaPro	AFU240120/G8530	i	:	12.1mm x 5.5mm F 1	3.4 x 2.7 x 2.2	Black	6'	1.7	UL/CUL	15.95	14.85	13.09	12.4
249121CH	ReliaPro	DFU240120/G8520			2.1mm x 5.5mm F 2	3.4 x 2.7 x 2.2	Black	6'	1.7	UL/CUL	15.95	14.85	13.09	12.4
249113CH	ReliaPro	DFU240120/G8510	24	1200	2.5mm x 5.5mm F 2	3.4 x 2.7 x 2.2	Black	6'	1.7	UL/CUL	15.95	14.85	13.09	12.4
199523CH	ReliaPro	DDU300050	30		2.5mm x 5.5mm F 2	2.9 x 2.3 x 1.9	Black	6'	1.1	UL/CUL	9.95	8.96	7.16	5.3
215095CH	ReliaPro	MW48-4800250	48		2.5mm x 5.5mm F 2	2.9 x 2.3 x 1.9	Black	6'	1.1	UL/CUL	7.95	7.15	6.49	5.7
230631CH	ReliaPro	MW48-4800250-2.1			2.1mm x 5.5mm F 2	3.3 x 2.7 x 2.2	Black	6'	1.1	UL/CUL	7.95	7.16	5.72	4.2
215108CH	ReliaPro	MW48-4800500	48	500	2.5mm x 5.5mm F 2	2.9 x 2.3 x 1.9	Black	6'	1.1	UL/CUL	10.95	9.85	8.85	7.9
230640CH	ReliaPro	MW48-480500-2.1	48	500	2.1mm x 5.5mm F <b>2</b>	3.3 x 2.7 x 2.2	Black	6'	1.1	UI/CUL	11.95	10.76	8.60	6.4
					Other Manufacturers — I	Limited Gre	eat De	als						
211238CH	Quotrek	35D-12-250	12	250	2.5mm right angle M 2	2.2 x 1.7 x 1.5	Black	6'	0.4	UI/CSA	\$3.95	\$3.55	\$2.89	\$2.1
201099CH	_	SPN4230A	12	300	1.3mm x 3.5mm right angle F 2	2.3 x 2.0 x 1.7	Black	6'	0.5	UL/CSA	4.99	4.49	4.05	3.3
200125CH	Noostuff Inc.	DV1250	12		2.5mm x 5.5mm F 1	2.4 x 2.0 x 1.6	Black	6'	1.0	UL/CSA	4.25	3.82	3.06	2.3
305103CH	_	AD1250-5LE	12		2.1mm x 5.5mm F <b>2</b>	2.6 x 1.9 x 1.7	Black	6'	0.6	UL/CSA	4.89	3.94	3.45	3.2
320266CH	CUI	DV-1280	12		2.1mm x 5.5mm F <b>2</b>	2.4 x 2.4 x 2.0	Black	6'	0.8	UL/CSA	6.09	5.49	4.39	4.3
237358CH	QSE	P155-D150567	12		2.5mm x 5.5mm F <b>2</b>	3.0 x 2.3 x 1.9	Black	6'	0.9	UL	5.19	4.69	3.75	2.7
211051CH	Calrad †	DV-1280 Dual	12		2.5mm x 5.5mm rt angle F 2 w/ input switch	2.6 x 2.4 x 1.9	Black	6'	0.9	No UL	\$5.39 4.85	4.36	3.49	2.6
40101CH	_	FW3288	12		2.1mm x 5.5mm F <b>2</b>	3.8 x 2.4 x 2.2	Black	6'	1.0	UL/CSA	7.49	6.74	5.39	4.0
199566CH	Superworld	WK1201A01DN	12		2.5mm x 5.5mm F 2 (w/ RF filter)	3.2 x 2.2 x 2.0	Black	6'	1.2	UL/CSA	6.95	6.26	5.63	5.0
89579CH	Fellowes	BCU12100	12		2.5mm x 5.5mm right angle F 2	3.2 x 2.2 x 1.9	Black	6'	1.0	UL/CSA	7.95	7.19	5.75	4.3
89211CH	ACI World	57-12-1500D	12		18-pin mini DIN M	3.4 x 2.6 x 2.2	Black	3'4"	1.7	UL/CUL	4.95	4.49	3.59	2.0
92786CH	— ACI WORID	MK135100	13.5		2.1mm x 5.5mm F 1	2.9 x 2.3 x 2.0	Black	6'	1.7	UL/CSA	3.79	3.43	3.12	2.8
		DV-1250			2.5mm x 5.5mm right angle F 2			6'		UL/CSA	5.19	4.67		
129314CH	I	DV-1230	14	300	2.5mm x 5.5mm right angle F Z	2.3 x 2.0 x 1.6	Black	0	0.6	UL/CSA	5.19	4.07	3.74	2.8

196322CH 3Com † 120 to 220VAC

220901CH

217541CH

217568CH

206957CH

Drake

NiteRider

NiteRider

GlobTek

3690454

FE4116168C030

FE4126180P040

WD1H1000LCX

16

16.8

18

18

250

300

400

1000 2.5mm x 5.5mm F 2 P48240600A020G 24 600 2.1mm x 5.5mm F 2 3.3 x 2.3 x 1.9 ▲ Brand and Product Number may vary except for ReliaPro, Mean Well, Phihong and Globtek

Stripped & tinned

2.5mm x 5.5mm F 2 w/ LED indicator

2.5mm x 5.5mm F 2 w/ LED indicator

More AC-to-DC Wall Adapters listed on pages 173 - 175 & 177

2.2 x 2.1 x 1.6

3.1 x 2.1 x 1.6

3.5 x 2.1 x 1.6

3.4 x 2.6 x 2.1

Black

Black

Black

Black

Black

8.0

0.6

8.0

1.4

UL/CSA

UL/CUL

UL/CUL

No UI

UL/CSA



2.12

3.20

4.31

8.06

1.59

2.40

3.23

7.25

6.85 5.15

\$3.752.95

\$4.95 4.45

5.99

9.95

2.66

4.00

5.39

8.96

# AC-to-DC Unregulated Wall Adapters

	Other Manufacturers — Limited Great Deals (Continued)													
			Output F	Rating	Output Connector			Output						
Part		Product	Voltage	Current	ID x OD/Polarity	Size	Case	Cord	Weight	Agency		Pric	ing	
Number	Brand▲	Number▲	(VDC)	(mA)	F = female; M = male	H" x W" x D"	Color	Length	(lbs.)	Approvals	1	10	50	100
15309CH	_	900-051	3, 4.5, 6,	500	1.3 x 3.5, 2.1 x 5.0, 2.5 x 5.5 <b>Female</b>						\$9.49	\$8.54	\$7.69	\$6.92
			7.5, 9, 12	!	2.5, 3.5 Male, 9V battery snap (LED ind.)	3.0 x 2.2 x 2.1	Black	6'	0.7	UL/CSA	\$7.47	φ0.54	\$7.07	\$0.72
190641CH	_	DCM08	3, 4.5, 6,	800	1.5 x 5.5, 2.1 x 5.0, 2.1 x 5.5, 2.5 x 5.5 <b>Female</b>						7.95	7.19	5.75	4.29
			7.5, 9, 12		2.5, 3.5 Male, polarity sw. (LED ind.)	3.9 x 2.7 x 2.3	Black	6'	0.9	UL/CSA	1.73	7.17	5.75	4.27
123158CH	_	900-100 †	1.5, 3, 4.5,	1000	1.3 x 3.5, 2.1 x 5.0, 2.5 x 5.5 Female						10.95	9.86	8.87	7.98
			6, 7.5, 9, 12		2.5, 3.5 Male, 9V battery snap (LED ind.)	3.7 x 2.2 x 2.5	Black	6'	0.9	_	10.75	7.00	0.07	7.70

<sup>▲</sup> Brand and product number may vary except for ReliaPro, Mean Well, Phihong and Globtek

# 2-Wire AC Input – AC-to-AC Wall Adapters We specialize in Wall Adapters – Call for additional OEM PRICING. We will change any power plug (pg 121) on any DC wall adapter listed (100 pc. minimum).



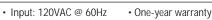
















			Output	Rating	Output Connector			Output						
Part		Product	Voltage		ID x OD Plug Type	Size	Case	Cord	Weight	Agency		Pric	3	
Number	Brand▲	Number▲	(VAC)	(mA)	F = female; M = male	H" x W" x D"	Color	Length	(lbs.)	Approvals	1	10	50	100
249017CH	ReliaPro	ACU070150	7	1500	2.5mm x 5.5mm <b>F</b>	2.5 x 2.0 x 1.7	Black	6'	0.5	UL/CSA	\$5.19	\$4.69	\$4.29	\$3.59
219619CH	ReliaPro	ABU09005 <b>む</b>	9	50	2.1mm x 5.5mm F	2.2 x 1.8 x 1.5	Black	6'	0.3	UL/CSA	1.65	1.51	1.38	1.25
100061CH	ReliaPro	ACU090050	9	500	2.1mm x 5.5mm F	2.7 x 1.9 x 1.7	Black	6'	0.6	UL/CUL	4.59	4.13	3.30	2.48
236814CH	ReliaPro	ACU090080	9	800	3.5mm <b>M</b>	2.5 x 2.0 x 1.7	Black	6'	0.5	UL/CUL	4.95	4.46	3.56	2.67
102234CH	ReliaPro	ACU090100	9	1000	2.1mm x 5.5mm F	3.2 x 2.2 x 1.9	Black	6'	0.6	UL/CSA	5.49	4.94	4.45	4.00
157041CH	ReliaPro	ACU090100	9	1000	2.5mm x 5.5mm F	2.1 x 2.1 x 1.6	Black	6'	0.6	UL/CSA	6.95	6.29	5.65	5.09
112336CH	ReliaPro	ACU090150	9	1500	2.5mm x 5.5mm F	2.5 x 2.2 x 2.0	Black	6'	0.9	UL	9.95	8.96	8.06	7.25
101258CH	ReliaPro	ACU120050	12	500	2.1mm x 5.5mm F	2.5 x 2.0 x 1.7	Black	6'	0.6	UL/CSA	4.59	4.13	3.30	2.48
10081CH	ReliaPro	ACU120100	12	1000	2.1mm x 5.5mm F	2.6 x 2.4 x 2.0	Black	6'	0.7	UL/CSA	5.19	4.67	4.20	3.78
100167CH	ReliaPro	A411201000U	12	1000	2.5mm x 5.5mm F	3.2 x 2.4 x 2.0	Black	6'	0.7	UL/CSA	5.19	4.67	4.20	3.78
10428CH	ReliaPro	ACU120100	12	1000	3.5mm <b>M</b>	2.6 x 2.4 x 2.0	Black	6'	0.6	UL/CUL	5.19	4.67	4.20	3.78
167151CH	ReliaPro	ADU120150	12	1500	2.1mm x 5.5mm F	3.4 x 2.7 x 2.2	Black	6'	1.5	UL/CUL	4.95	4.49	3.99	3.35
307838CH	ReliaPro	ADU120160	12	1600	2.5mm x 5.5mm F	2.9 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	12.69	10.17	8.90	8.45
153761CH	ReliaPro	ADU120160	12	1600	3.5mm <b>M</b>	2.5 x 2.2 x 1.9	Black	6'	0.9	UL	10.95	9.86	8.87	7.98
171408CH	ReliaPro	ACU140050	14	500	2.1mm x 5.5mm F	2.8 x 2.0 x 1.6	Black	6'	0.6	UL/CSA	4.49	4.04	3.64	3.28
318684CH	ReliaPro	ACU140085	14	850	2.5mm x 5.5mm right angle F	2.5 x 2.0 x 1.7	Black	6'	0.6	UL/CUL	10.85	8.18	7.30	6.23
100108CH	ReliaPro	ADU160100	16	1000	2.1mm x 5.5mm F	2.5 x 2.2 x 1.9	Black	6'	0.9	UL/CSA	7.95	7.19	6.45	5.85
163053CH	ReliaPro	ADU160110	16	1100	2.5mm x 5.5mm F	3.2 x 2.3 x 1.8	Black	6'	1.1	UL/CSA	8.95	7.99	6.44	4.83
121216CH	ReliaPro	ADU180100	18	1000	2.1mm x 5.5mm F	3.1 x 2.7 x 1.9	Black	6'	1.1	UL/CUL	8.95	8.05	7.25	6.15
87581CH	ReliaPro	ADU240050	24	500	2.1mm x 5.5mm F	2.5 x 2.2 x 1.9	Black	6'	0.9	UL/CSA	5.19	4.67	4.20	3.78
140599CH	ReliaPro	ADU240100	24	1000	2.1mm x 5.5mm <b>F</b>	3.0 x 2.2 x 1.9	Black	6'	1.2	UL/CSA	8.95	8.09	6.49	4.89
10102CH	ReliaPro	ADU240100	24	1000	3.5mm M	3.0 x 2.2 x 1.9	Black	6'	1.2	UL/CSA	7.95	7.19	6.45	5.85
176356CH	ReliaPro	AFU240125	24	1250	2.1mm x 5.5mm <b>F</b>	3.4 x 2.7 x 2.2	Black	5'8"	1.6	No UL	10.49	9.44	8.50	7.65
	Other Manufacturers Limited Creat Deals													

17033000	Reliario	AFU240123	24	1230	2.111111 X 3.311111 F	3.4 X 2.7 X 2.2	DIACK	3.0	1.0	NO UL	10.49	9.44	0.30	7.00
	Other Manufacturers — Limited Great Deals													
101127CH	Siemens	DFX10096B	7	1500	2.5mm x 5.5mm F	1.9 x 2.2 x 2.0	Black	7'6"	0.8	UL/CSA	\$4.95	\$4.46	\$3.56	\$2.67
219660CH	Sincore	SLA40810	8	1000	2.1mm x 5.5mm <b>F</b>	2.2 x 2.1 x 1.6	Black	6'	0.7	UL/CSA 4	3.09	1.76	1.40	1.05
210729CH	ITE Power Supply	MKA35090300	9	300	2.1mm x 5.5mm F	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CUL	3.95	3.55	2.84	2.13
184751CH	PhoneMate	M/N40	9	450	2.1mm x 5.5mm right angle F	2.8 x 2.0 x 1.7	Black	6'	0.8	UL/CSA	4.59	4.13	3.30	2.48
226131CH	US Robotics	AA0950	9	500	2.5mm x 5.5mm <b>F</b>	2.5 x 2.1 x 1.7	Black	6'	0.5	UL/CSA	4.49	4.04	3.23	2.42
249295CH	Pacrim	41A-9-700	9	700	2.5mm x 5.5mm <b>F</b>	2.3 x 2.0 x 1.7	Black	6'	0.6	UL/CSA	4.49	3.99	3.65	3.29
233293CH	Horizon	ACU090080	9	800	2.1mm x 5.5mm F	2.5 x 2.0 x 1.7	Black	6'	0.6	UL	4.69	4.25	3.39	2.55
320258CH	US Robotics	T48091500A010G	9	1500	2.5mm x 5.5mm <b>F</b>	2.5 x 2.2 x 2.0	Black	6'	0.9	UL/CSA	8.95	8.05	7.25	6.55
217550CH	Frino	FW6798	9	1900	Stripped and tinned	2.8 x 2.5 x 2.0	Black	6'8"	1.1	UL/CSA	8.49	7.64	6.11	4.58
210745CH	Leader Electronics	A4110050T	10	500	2.1mm x 5.5mm F	3.0 x 2.1 x 1.7	Black	6'	0.6	UL/CSA	2.65	2.39	2.19	1.99
265455CH	_	FW6199	12	200	2.1mm x 5.5mm F	2.1 x 1.9 x 1.9	Black	6'7"	0.5	UL	1.95	1.76	1.40	1.05
211271CH	Orig. Elec. Mfg.	AA-1250	12	500	2.5mm x 5.5mm <b>F</b>	2.3 x 2.1 x 1.6	Black	6'	0.6	UL/CSA	4.59	4.13	3.30	2.48
285069CH	Shogyo	DV-1283	12	830	2.5mm x 5.5mm <b>F</b>	2.8 x 2.0 x 1.6	Black	6'	0.6	UL/CSA	4.95	4.55	4.13	3.70
309884CH	_	AA-121A	12	1000	2.1mm x 5.5mm F	2.5 x 2.0 x 1.7	Black	6'	_	UL/CUL	4.89	4.39	3.96	3.55
206404CH	MG Electronics	MGT1220	12	1670	Screw terminals	3.2 x 2.2 x 1.9	White	_	0.9	UL/CSA	6.95	6.29	5.65	5.09
210737CH	ITE Power Supply	PPI-1212UL	13	1200	2.1mm x 5.5mm F	3.3 x 2.4 x 2.0	Black	6'	0.9	UL/CUL	4.95	4.49	3.59	2.69
171854CH	Racal	DV1485AC <b>ᢒ</b>	14	850	2.5mm x 5.5mm right angle F	3.0 x 2.0 x 1.7	Black	6'	0.7	UL/CUL	6.95	6.25	5.65	4.69
201101CH	Motorola	SPN4340A	15	200	1.3mm x 3.5mm F	2.2 x 1.8 x 1.5	Black	6'	0.5	UL/CSA	1.69	1.52	1.37	1.23
227791CH	Ault	T41180500A0206	18	500	2.1mm x 5.5mm F	2.6 x 1.9 x 1.7	Black	6'	1.1	No UL	5.19 <sub>3.95</sub>	3.56	2.84	2.13
185439CH	Ault	T5182200-A020G	18	1850	2.1mm x 5.5mm right angle F	3.3 x 2.7 x 2.2	Black	6'	1.7	No UL	7.49	6.74	5.39	4.04
308718CH	Comtrend	ACU-190051	19	510	2.5mm x 5.5mm right angle F	2.5 x 2.0 x 1.7	Black	6'	0.6	UL/CUL	5.39	4.85	4.39	3.65
206421CH	MG Electronics	MGT2410	24	420	Screw terminals	2.5 x 2.0 x 1.7	White	_	0.6	UL/CSA	6.49	5.84	5.26	4.73
240119CH	_	FW6798	24	500	2.5mm x 5.5mm <b>F</b>	2.8 x 2.5 x 2.2	Black	6'8"	0.8	UL/CSA	4.95	4.46	3.56	2.67
206439CH	MG Electronics	MGT2420	24	830	Screw terminals	3.2 x 2.2 x 1.9	White	_	0.9	UL/CSA	7.19	6.49	5.85	5.25
305091CH	Ault	3264024000A1	24	1600	3.5mm <b>M</b>	2.9 x 2.7 x 2.2	Black	6'	1.5	UL	9.95	8.54	8.06	7.25

▲ Brand and product number may vary except for ReliaPro, Mean Well, Phihong and Globtek **♥** Blue Part No. = Limited Quantity Available Attached AC cord

Agency approvals: CSA

Size: 3.7"L x 2.9"W x 2.5"H

Jameco

Manufacturer

· Output volts: 16VAC Output watts: 64W

TA661640 .....

 Cord (AC/AC): 6'/6' · Color: black

· Weight: 2.8 lbs.

100

\$2.84





1	10	50
\$12.95	\$11.65	\$10.49

# Wall Adapter Enclosures

Enclosures include

Reliable & Consistent

**Professional Grade** 

Awesome Prices

Backed by Jameco

ReliaPro

Part No.

115051CH

115043CH

Size: 3.4"H x 2.7"W x 2.3"D

Material: noryl
 Color: black



# Power Transformers and Variable Transformers

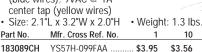
# **6VAC/9VAC Dual Output** Power Transformer

### 12VA

Part No.

176604CH

- · Input voltage: 120VAC
- 500mA center tap (blue wires); 9VAC @ 1A center tap (yellow wires)



# Output voltage: 6VAC @

**Product Number** 

# YS57H-099FAA ...... \$3.95 120VAC to 120VAC

### **Isolation Transformer** 300VA **Quantity SAVE**

with a snap of these sup-

pression cores around a

power cord or data cord. Easy to install and an affordable way to reduce

EMI without redesigning

your product.

Part No.

218173CH

217841CH

318705CH

- · Input voltage:
- 120VAC @ 60Hz · Input connector: 5.5' cord with 2-prong plug
- Output voltage: 120VAC @ 2.5A (isolated)
- Size: 4.2"H x 3.2"W x 4.6"D
   Weight: 7.0 lbs. Mfr. Cross Ref. No. Part No.

**181315CH** ITR300 \$44.95 \$38.21 \$28.66

**EMI Suppression Cores with Case** 

Closed

Open

100

\$.79

.92

1.25

10

Reduce Electro Magnetic Interference (EMI)

Size (OutDia. x InDia. x L)

.64" x .20" x 1.15" ..... \$.99

.78" x .34" x 1.40" ...... **1.45** 

.82" x .45" x 1.42" ...... 1.39

# 320VA Variable AC Transformer

- · Input voltage: 110VAC @ 60Hz (using pin 1-2) 110VAC @ 50Hz (using pin 1-4)
- Matching input/output terminals: P/N 103667CH and 109111CH (disconnect .25" solderless terminals), pg 120
- Maximum current: 2.5A • Size: 2.8"Dia. x 2.1"H
- · Panel mount · Shaft length: 0.5"
- One-year warranty

· Weight: 2.5 lbs. Includes: 3 disconnect .25" solderless terminals

Part No. Description 149323CH 320VA variable ...... \$53.95 \$48.59 \$43.75

# 550VA Variable AC Transformer

- Input voltage: 110VAC @ 60Hz Output voltage: 0-140VAC
- Rated current: 5A
- · Panel mount
- · Input/output terminals: binding post with 0.188" diameter post
- Size: 4.3"Dia. x 4.0"H
- Weight: 6.8 lbs.
   One-year warranty

Description Part No. 152936CH 550VA variable ........ \$62.95 \$53.51 \$47.88

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# 500VA & 2000VA Variable Transformers

- Input voltage: 110VAC @ 60 Hz
- Power: 500 or 2000VA
- Output voltage: 0 to 130VAC Output analog voltmeter
- Input connector.: 3-prong plug w/ 5' cord · Output connector: 3-prong outlet type
- Lighted on/off power switch
- 169640CH: 5A @ 250V fuse
- Size: 8.3"L x 6.5"W x 7.0"H
- · Weight: 15.6 lbs.
- 169658CH: 20A @ 250V fuse • Size: 9.8"L x 8.0"W x 7.0"H
- · Weight: 26.5 lbs



# 500-2000VA Variable Transformers

- Input: 110VAC or 220VAC
- Power: 500, 1000 or 2000VA
- Output: 0-240VAC
- Banana/screw input terminals
- Universal US/ European output plugs
- Lighted on/off power switch



Part No.	Fuse	Size (L" x W" x H")	Wt. (lbs.)
121275CH	3A/250V (P/N 69438CH)	5.3 x 7.3 x 7.0	10.4
129007CH	5A/250V (P/N 10401CH)	9.4 x 6.5 x 7.7	14.8
152581CH	10A/250V (P/N 69462CH)	9.0 x 7.0 x 7.7	19.8

Part No.	Description	1	10	50
	500VA trans			
129007CH	1000VA trans	164.95	140.21	105.16
152581CH	2000VA trans	174.95	148.71	111.75

# International Step-Up and Step-Down Transformers

**Quantity SAVE** 

Wide selection to meet your power requirements

### Primary Pricing Mfr. Cross Part Secondary Power Dimensions Weight Number Ref No 3 Fig Type Voltage Voltage (VA) H" W" 'ח (lbs.) 10 100 99573CH AC110V50 1/A Auto 220VAC 110VAC 50 2.50 1.63 1.33 0.7 \$9.95 \$8.99 \$8.09 85016CH 300 AC110V300 2/A Auto 220VAC 110VAC 3.50 3.05 3.95 4.8 27.95 24.95 22.49 111851CH AC110V500 2/A 220VAC 110VAC 500 3.99 3.60 4.84 8.5 34.95 31.49 28.95 Auto 59.95 220VAC 1000 4.63 3.81 17.0 221250CH GSD-1000 2/A Auto 110VAC 6.06 50.96 38.22 AC110V1500 5.25 142906CH 2/A Auto 220VAC 110VAC 1500 4.50 5.75 15.2 79.95 71.95 63.69 35<sup>8.95</sup> 99477CH AC220V50 1/B Auto 110VAC 220VAC 50 2.50 1.63 1.33 0.7 8.09 7.25 15.25 221233CH 2/B 110VAC 220VAC 125 3.13 2.50 3.00 3.0 13.84 12.58 P8638 Auto 110VAC 3.50 85008CH AC220V300 2/B Auto 220VAC 300 3.05 3.95 4.8 27.95 23.76 17.82 110VAC 221217CH 2/R 220VAC 1000 3 75 17.0 61 95 57 55 P8689 4 63 6 13 43 85 Auto 221313CH G1SD-500 2/A Isolation 220VAC 110VAC 500 4.69 3.75 6.00 16.0 78.95 67.11 50.33 127.46 222092CH G1SD-1000 2/A Isolation 220VAC 110VAC 1000 4.38 8.13 31.0 149.95 5.38 95.59 221330CH 2/B Isolation 110VAC 50.33







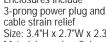








Manufacturer may vary



Style



Vented ..... 2.25





Color Code Legend

New Sale Lower\$ QtySave





169640CH

### **Split-Bobbin Power Transformers**

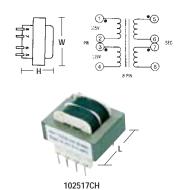




Non-concentrically wound with primaries and secondaries side-by-side providing low capacitive coupling.

• Primary: 115/230VAC, 50-60Hz

• PC terminal pin spacing for accurate placement

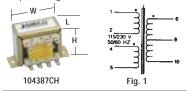


Part	Mfr. Cross	Triad	Input	VA	Individual	Parallel	Series	Di	mensi	ons	Wt.		Pricing	
Number	Ref. No.	Cross	Voltage	Cap	Output	Output	Output	L"	W"	Н"	(lbs.)	1	10	100
221292CH	DSW-312	FS12200	115/230	2.5	6.3V @ .20A	6.3V @ .40A	12.6VCT @ .20A	1.38	1.13	1.19	0.3	\$4.95	\$4.21	\$3.16
102533CH	XFR1205SB	FS12500	115/230	6.3	6.3V @ .50A	6.3V @ 1.0A	12.6VCT @ .50A	1.31	1.62	1.30	0.4	7.29	6.49	5.75
102517CH	XFR1602SB	FS16150	115/230	2.4	8V @ .15A	8V @ .30A	16VCT @ .15A	1.17	1.38	1.20	0.3	5.65	4.80	3.60
221284CH	DSW-316	FS16150	115/230	2.5	8V @.15A	8V @ .30A	16VCT @ .15A	1.38	1.13	1.19	0.3	3.09	2.80	2.55
210921CH	14A-10-Z0B21	_	115/230	10.0	10V @ .05A	10V @ 1.0A	20VCT @ 0.5A	1.88	1.56	1.38	0.5	3.69	3.36	3.05
210948CH	DPC20-60B130	_	115/230	1.2	10V @ .06A	10V @ .12A	20VCT @ .06A	1.63	1.25	1.38	0.2	2.05	1.85	1.69
210956CH	DST2-24-845	_	115/230	1.1	12V @ .045A	12V @ .09A	24VCT @ .045A	1.13	1.13	0.94	0.2	6.49	5.85	5.25
176090CH	SPT41240-120	FS24250	115/230	6.0	12V @ .25A	12V @ .50A	24VCT @ .25A	1.33	1.63	1.59	0.5	6.95	5.91	4.43
102592CH	XFR2405SB	FS24500	115/230	12.0	12V @ .50A	12V @ 1.0A	24VCT @ .50A	1.58	1.90	1.46	0.7	8.79	7.95	5.49
249412CH	DST-5-16	_	115/230	12.8	8V @ .80A	8V @ 1.6A	16VCT @ .80A	1.57	1.88	1.42	0.6	8.95	8.09	7.25
210930CH	PC34-35-B210	_	115	1.2	17V @ .035A	17V @ .07A	34VCT @ .035A	1.38	1.13	1.19	0.2	2.05	1.85	1.69
148559CH	XFR3603SB	FS36350	115/230	17.0	18V @ .35A	18V @ .70A	36VCT @ .35A	1.59	1.91	1.72	0.7	7.49	6.69	6.05
210964CH	LP40-300-B14	_	115/230	12.0	20V @ .30A	20V @ 0.6A	40VCT @ 0.3A	2.50	2.00	1.07	0.7	5.85	5.30	4.82
209015CH	ST-6-48	_	115	19.2	24V @ .40A	24V @ .80A	48VCT @ .40A	1.88	2.25	1.40	0.8	2.59	2.32	2.11

#### **Quick-Connect Power Transformers**

**Quantity SAVE** 

- · Quick-connect transformers are bobbin wound for smaller size and reduced electrostatic shielding requirements
- · Terminals: quick connect, solder
- Input voltage: 115/230VAC, 50-60Hz



Part	Mfr. Cross	Triad		Input	Output		Size of	D	imensio	ns	Wt.	Pricing		
Number	Ref. No.	Cross	Fig.	Voltage	Voltage	VA Cap	Connect	L"	W"	H"	(lbs.)	1	10	100
104387CH	XFR1225Q	FD612	1	115/230VAC	12.6VCT @ 2.5A	31.5	0.187"	1.75	2.33	2.00	1.3	\$9.29	\$7.90	\$5.92
104408CH	XFR1635Q	FD716	1	115/230VAC	16VCT @ 3.5A	56.0	0.187"	2.00	2.70	2.30	1.8	12.95	11.01	8.26
101864CH	XFR2424Q	FD724	1	115/230VAC	24VCT @ 2.4A	57.6	0.187"	2.40	2.70	2.25	1.7	11.95	10.16	7.62
104416CH	XFR3615Q	FD736	1	115/230VAC	36VCT @ 1.5A	54.0	0.187"	1.90	2.70	2.30	1.8	9.95	8.99	8.09

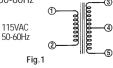
### 115VAC and 115/230VAC Power Transformers

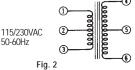
**Quantity SAVE** 

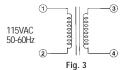
Power transformers have both single and dual-voltage input and center-tapped outputs. This makes them the perfect choice for power supply design or for use in transformer, rectifier and filter circuits.











Part	Mfr. Cross	Triad		Primary			Sec	condary			Lead		- 1	Dimension	ns	Wt.		Pricing	
Number	Ref. No.	Cross	C	olor Code		VA Cap	Voltage		Color Cod	le	Туре	Fig.	L"	W"	H"	(lbs.)	1	10	100
102162CH	XFR6102	F314X	Black	Yellow*	Red	7.6	6.3VCT @ 1.2A	White	Black*	White	Wire	2	1.56	1.96	1.67	0.8	\$8.49	\$7.22	\$5.41
105523CH	XFR0910	_	Black	White*	Red	9.0	9VCT @ 1A	Blue	Black*	Blue	Wire	2	1.79	1.96	1.66	0.7	6.95	6.25	5.63
221401CH	P-8391	F216X	Black	_	Black	4.2	12VAC @ 0.35A	White	_	White	Wire	3	1.38	2.38	1.38	0.4 -\$	4. <sup>45</sup> 2.59	2.34	2.13
221399CH	P-8657	F218X	Black	_	Black	24.0	12VAC @ 2A	White	_	White	Wire	3	2.13	3.25	2.00	1.3	9.15	8.49	7.15
221356CH	P-8658	F219X	Black	_	Black	48.0	12VAC @ 4A	White	_	White	Wire	3	2.25	4.00	2.63	2.3	12.95	11.95	9.95
29225CH	XFR122	F44X	Yellow	_	Yellow	25.2	12.6VCT @ 2A	Blue	Red*	Black	Wire	1	2.12	2.33	1.96	1.5	9.95	8.99	7.99
102154CH	XFR1220	F344X	Black	Yellow*	Red	25.2	12.6VCT @ 2A	White	Black*	White	Wire	2	2.35	2.32	1.97	1.5	10.95	9.39	6.99
149770CH	XFR1240	F3181U	Black	Red*	Yellow	50.4	12.6VCT @ 4A	White	Black*	White	Wire	2	2.45	2.70	2.24	2.2	12.95	11.69	10.49
102120CH	XFR124	F181U	Black	_	Black	50.4	12.6VCT @ 4A	White	Black*	White	Wire	1	2.53	3.08	2.61	2.7	12.95	11.69	10.49
105531CH	XFR1810	_	Blue	Red*	Black	18.0	18VCT @ 1A	Yellow	Black*	Yellow	Wire	2	2.32	2.05	1.90	1.2	6.95	6.26	5.31
149956CH	XFR1820	_	Black	Red*	Yellow	36.0	18VCT @ 2A	White	Black*	White	Wire	2	2.26	2.66	2.28	1.8	8.95	7.95	6.95
221381CH	P8396	_	Black	_	Black	9.6	24VCT @ 0.4A	White	Black*	White	Wire	1	1.63	2.8	1.5	0.6	6.95	5.91	4.43
102111CH	XFR2410	F346X	Black	Yellow*	Red	24.0	24VCT @ 1A	White	Black*	White	Wire	2	2.22	2.33	1.97	1.5	8.95	7.61	5.71
221372CH	P-8662	F192X	Black	_	Black	48.0	24VCT @ 2A	White	Black*	White	Wire	1	2.38	4.00	2.62	2.3	11.95	10.16	7.62
112512CH	XFR242N	F229X	Black	_	Black	48.0	24VAC @ 2A	White	_	White	Wire	3	2.21	3.58	2.25	1.8	9.79	8.85	7.95
221364CH	P-8663 <sup>†</sup>	F193U	_	_	_	96.0	24VCT @ 4A	¦ –	_	_	Lug	1	2.81	3.13	3.81	4.0	18.95	17.85	14.95
221410CH	P-8666 <sup>†</sup>	F226U	_	_	_	288.0	24VCT @ 12A	¦	_	_	Lug	1	4.63	3.75	4.63	11.2	34.95	31.96	28.97
99653CH	XFR242	_	Red	_	Red	49.2	24.6VCT @ 2A	Blue	Yellow*	Blue	Wire	1	2.44	2.70	2.30	2.5	10.95	9.31	6.98
102103CH	XFR2520	F341X	Black	White*	Red	50.4	25.2VCT @ 2A	Orange	Black*	Orange	Wire	2	2.45	2.67	2.26	2.8	14.95	13.46	12.11
149796CH	XFR2820	F3185U	Black	Red*	Yellow	56.0	28VCT @ 2A	White	Black*	White	Wire	2	2.45	2.70	2.24	2.3	12.95	11.69	8.59

Center tap † Solder terminals

Order Anytime, Day or Night

Our friendly Sales department will take your order 24x7x365 by phone, fax, web or email.

• Excellent resistance to jacket abrasion

2-conductor power cord with pigtail with strain relief

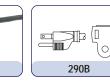
Molded connectors

	AWG	Volts	Amps
media	18	125	10
SIVE	16	125	13
	14	125	15

<b>alue</b> Pro	<ul> <li>Temperature: 60°C; 125V</li> <li>Conductors stripped and twisted 5/8"</li> <li>Outer jacket stripped 2"</li> </ul>











173	AEC-30

						$\cup$							
		185			173			Al	EC-30				
Volex		Plug	Retract.	Exten.	AWG	Cord		Pr	ice				
V Dof	Eia	Fig	Longth	Longth	(Ctronding)	Tuno*	1	10	100	2			

Part	Volex		Plug	Retract.	Exten.	AWG	Cord		Pr	ice	
Number	X-Ref.	Fig.	Fig.	Length	Length	(Stranding)	Type*	1	10	100	25
2-conductor retractable power cord, unshielded											

340523CH	8879	18	_	8"	5'	20/2(42x36)	_	\$11.19	\$10.24	\$9.18	\$8.26
Part	Volex		Recept.			AWG	Cord				
Number	X-Ref.	Fig.	Fig.	Length	Color	(Stranding)	Type*	1	10	100	250

3-conductor power cord, shielded 												
11	339961CH	17749	15	386A	6'7"	Black	18/3(41x34)	SVT	\$2.85	\$2.79	\$2.73	\$2.67
00	340013CH	17620	15	386E	6'7"	Black	16/3(65x34)	SJT				4.11
30	340030CH	17750	15	386A	9'10"	Black	18/3(41x34)	SVT	3.99	3.85	3.63	3.45
	340081CH		15	386E	9'10"	Black	16/3(65x34)	SJT	5.39	5.17	4.91	4.67

Number	X-Ref.	Fig.	Fig.	Length	Color	(Stranding)	Type*	1	10	100	25
3-conductor R/A detachable power cord, shielded, PVC											
340128CH	17745	7	290B/PH910	6'7"	Black	18/3(41x34)	SVT	\$3.79	\$3.62	\$3.43	\$3.2
340152CH	17606	7	290B/PH910	6'7"	Black	18/3(41x34)	SJT	7.65	7.03	6.34	5.7
340179CH	17608	7	185/PH910	6'7"	Black	16/3(65x34)	SJT	5.45	5.16	4.90	4.6

AWG Cord

340224CH	17746	7	290B/PH910	9'10"	Black	18/3(41x34)	SVT	5.15	3.88	3.69	3.49
340232CH	17607	7	290B/PH910	9'10"	Black	18/3(41x34)	SJT	9.29	8.47	7.62	6.86
340259CH	17609	7	185/PH910	9'10"	Black	16/3(65x34)	SJT	10.59	9.60	8.71	7.84
3-conduct	tor R/A	deta	chable po	wer c	ord, u	ınshielded,	PVC				
340321CH	17506	7	290B/PH910	6'7"	Black	18/3(41x34)	SJT	\$4.09	\$3.72	\$3.35	\$3.02

## 340355CH | 17508 | 7 | 290B/PH910 | 6'7" | Black | 16/3(26x30) | SJT | 2.59 | 2.47 | 2.35 | 2.33 3-conductor detachable power cord, shielded, PVC

340101CH	17725	17	290B/386A	6'7"	Black	18/3(41x34)	SVT	\$4.15	\$3.79	\$3.45	\$3.17
340110CH	17742	17	290B/386A	6'7"	Black	18/3(41x34)	SVT	3.49	3.14	2.85	2.60
340144CH	17600	17	185/386A	6'7"	Black	18/3(41x34)	SJT	7.85	6.89	6.20	5.58
340161CH	17602	17	290B/386A	6'7"	Black	16/3(65x34)	SJT	5.15	5.04	4.93	3.93
340187CH	17604	17	173/386A	6'7"	Black	14/3(41x30)	SJT	9.29	8.67	7.78	7.26
340195CH	17743	17	290B/386A	9'10"	Black	18/3(41x34)	SVT	5.29	4.90	4.45	4.09
340208CH	17601	17	185/386A	9'10"	Black	18/3(41x34)	SJT	5.29	5.10	4.60	4.13
340241CH	17603	17	290B/386A	9'10"	Black	16/3(65x34)	SJT	5.75	5.46	5.18	4.93
340267CH	17605	17	173/386A	9'10"	Black	14/3(41x30)	SJT	11.45	10.54	9.57	8.79

#### 3-conductor detachable power cord, foil shielded, PVC 340136CH 17660 17 290B/386A 6'7" Black 18/3(41x34) SVT \$10.59 \$7.90 \$7.51 \$7.16

	3-conduct	or deta	chal	hle nower	cord	unshi	ielded PVC					
	340216CH	17661	17	290B/386A	9'10"	Black	18/3(41x34)	SVT	13.49	10.08	9.58	9.14
. 1	340130011	17000	17	270D/300M	0 /	Diack	10/3(41834)	301	\$10.37	\$1.70	\$1.51	\$1.10

340275CH	17002A	17	290B/386A	1.0	BIACK	18/3(41X34)	501	\$1.39	\$1.28	\$1.21	\$1.1
340283CH	17000A	17	290B/386	3'	Black	18/3(41x34)	SVT	1.85	1.37	1.30	1.2
340291CH	17001A	17	290B/386A	3'	Black	16/3(26x30)	SJT	3.69	2.72	2.59	2.5
340304CH	17249	17	290B/386	6'	Black	18/3(41x34)	SVT	10.59	1.52	1.40	1.3
340312CH	17758	17	290B/386A	6'7"	Black	18/3(41x34)	SJT	4.95	4.56	4.09	3.6
340339CH	17500	17	290B/386A	6'7"	Black	18/3(41x34)	SJT	2.55	2.14	1.95	1.7
340347CH	17502	17	290B/386E	6'7"	Black	16/3(26x30)	SJT	4.25	3.78	3.42	3.1
340363CH	17504	17	173/386A	6'7"	Black	14/3(41x30)	SJT	4.19	3.75	3.36	3.0
340380CH	17757 <b>†</b>	17	290B/386A	7'6"	Black	18/3(41x34)	SVT	2.45	2.16	1.96	1.7
340401CH	17255	17	290B/386E	7'6"	Black	16/3(26x30)	SJT	4.15	3.04	2.88	2.8
340419CH	17501	17	290B/386A	9'10"	Black	18/3(41x34)	SJT	2.79	2.45	2.23	2.2

3-conductor jumper power cord, shielded
---

340515CH	17625	9	388B/386E	3'3"	Black	16/3(26x30)	SJT	\$6.59	\$6.09	\$5.48	\$4.93
3-conduc	tor jum	per p	ower cord	, uns	hielde	ed					

	18	125	10	1250
	16	125	12	1500
	14	125	15	1875
1				

AWG Volts Amps VA

Number	Ref. No.	Wt.	Fig.	Length	Color	AWG	Type*	1	10	100	250	Number	Ref. No.	Wt.	Fig.	Length	Color	AWG	Type*	1	10	100	250
2-conducto	2-conductor power cord with pigtail 3-conductor monitor power adapter cord																						
152186CH	17106BG	.20	1	6'	Beige	18/2	SPT-2	\$1.29	\$1.16	\$1.04	\$.92	177447CH	MPC1	.16	11	1'	Black	18/3	SVT	\$2.95	\$2.66	\$2.12	\$1.59
124433CH	ST008	.16	1	6'	Black	18/2	SPT-2	1.15	1.03	.83	.69	3-conducto	or nower co	rd (r	OWE	r strin	saver	)					

**Quantity SAVE** 

42041CH	17106	.25	1	6'	Black	18/2 S	SPT-2	\$1.15	\$1.03	\$.93	\$.78	208338CH	SY0527BG	.16	12	1'	Beige	18/3	SVT	1.69	1.45	1.09	1.03
	-conductor "8" style power cord for laptops and power supplies  3-condcutor power cord ("Y" type power strip saver)																						
2-conducto	or "8" style µ	owe	r co	rd for l	aptops	and p	oower.	supplie	es			3-condcuto	r power cor	d ("	Y" ty	ре рои	er str	ip sav	rer)				

Voltage rating: 300 volts

• Temperature: -20°C to +60°C

2-conducto	or "D" style į	oow	er co	rd for l	aptop	s and	powe	r suppl	ies		
200791CH	LL114039	.30	3	6'	Black	18/2	SPT-2	\$2.95	\$2.69	\$2.39	\$1.45

3-conducto	or power coi	d w	ith p	igtail							
38009CH	17237	.31	4	6'	Gray	18/3	SVT	\$2.39	\$2.15	\$1.72	\$1.29
173809CH	17405	.39	4	6'	Gray	18/3	SJT	2.35	2.15	1.89	1.59
37997CH	17236	.30	4	6'	Black	18/3	SVT	2.79	2.32	2.11	1.99
279662CH	32V86S	.32	4	6'	Black	18/3	SVT	2.79	2.32	2.11	1.99
159409CH	17405B	.37	4	6'	Black	18/3	SJT	2.59	2.15	1.95	1.79
38025CH	17238	.39	4	8'	Black	18/3	SVT	3.29	2.75	2.45	2.25
102007CH	17535B	.49	4	10'	Black	18/3	SVT	3.25	2.92	2.63	2.20

80 4 10' Black 16/3 SJT 3.49 3.14 2.83 2.35

Black 14/3 SJT 4.25 3.82 3.06 2.37

3.95 3.56 3.20 2.88

3-conducto	r riaht anal	$\alpha n r$	MACE	cord w	ith ni	atail /	I imita	ובוווו אב	atitu /lu	ailahla	വ
J-conucto	ı ııuın anuı	$-\nu$	WCI	COIGW	ונוו טונ	alan l		-u Quai	ILILV AV	anavic	71

.67 4 6' 7" Black 14/3 SJT

	184815CH	17629BR <b>⊙</b>	.77	5	7'	Black	14/3	SJT	\$2.35	\$2.10	\$1.89	\$1.86
	3-conducto	r power sup	ply	cora	(shiel	ded)						
늢	213874CH	17660BG	.40	6	6'	Beige	18/3	SVT	\$3.59	\$3.25	\$2.95	\$2.65
ĕ	161761CH	17742	.40	6	6'	Black	18/3	SVT	4.49	4.04	3.23	2.42
Power	229219CH	9350819	.45	6	8'	Black	18/3	SJT	4.49	4.04	3.23	2.42
	190625CH	37805	.75	6	10'	Beige	18/3	SJT	3.49	3.14	2.51	1.88
	142607CH	17502	.63	6	6'	Black	16/3	SJT	4.19	3.77	3.02	2.26

## 3-conductor power supply cord

1140378

17516

196285CH 166924CH

100271CH

103747CH	17248	.34	6	6'	Gray	18/3	SVT	\$3.89	\$3.50	\$2.80	\$2.49
38041CH	17249	.37	6	6'	Beige	18/3	SVT	3.49	3.15	2.79	2.49
38050CH	17250	.36	6	6'	Black	18/3	SVT	3.75	3.29	2.89	2.17
132118CH	17500	.44	6	6'	Black	18/3	SJT	4.49	4.04	3.23	2.42
117583CH	17502	.37	6	8'	Gray	18/3	SVT	3.49	3.14	2.83	2.54
171096CH	17758	.60	6	8'	Black	18/3	SJT	3.95	3.56	2.84	2.13
102023CH	17501V	.55	6	10'	Black	18/3	SVT	3.95	3.39	3.09	2.79
192727CH	17501J	.64	6	10'	Black	18/3	SJT	3.95	3.56	2.84	2.13
163361CH	6952299	.33	6	14'	Black	18/3	SJT	5.39	4.85	4.39	3.95
159361CH	17602	.57	6	6'	Black	16/3	SJT	3.79	3.41	2.73	2.05
249383CH	LL34977	.72	6	9'	Black	16/3	SJT	3.95	3.55	3.19	2.89
125541CH	17504	.71	6	6' 7"	Black	14/3	SJT	4.95	4.46	4.01	3.12

#### 3-conductor right angle power supply cord (shielded)

173251CH	17250RS	.40	7	6'	Black	18/3	SVT	\$3.29	\$2.96	\$2.66	\$2.40		
3-conductor right angle power supply cord													
117356CH	8120-6177	.41	7	6'	Gray	18/3	SVT	\$3.95	\$3.19	\$2.39	\$1.69		
38076CH	17250R	.54	7	6'	Black	18/3	SVT	3.49	3.15	2.85	2.55		
177383CH	17507	.66	7	10'	Black	18/3	SJT	3.95	3.59	3.19	2.69		

#### 3-conductor piggy backed computer power cord 84937CH 17669-6 .47 8 6' Black 18/3 SJT \$6.95 \$6.25 \$5.65 \$4.75

3-conducto	or computer	рои	ver s	upply є	extens	ion c	ord				
28468CH	PEC	.36	9	6'	Black	18/3	SVT	\$3.89	\$3.51	\$2.81	\$2.11
175855CH	PECUL10	.53	9	10'	Black	18/3	SVT	3.29	2.96	2.66	2.40
319804CH	LR94903	33	9	6'	Grav	18/3	SVT	4 15	3 39	3 15	2.95

### 3-conductor power cord w/ hospital grade male (green dot)

132011CH	17006G	.82	10	10'	Gray	16/3	SJT	\$8.45	\$7.61	\$6.84	\$6.16
265412CH								7.99			
115078CH	17006	.84	10	10'	Black	16/3	SJT	8.95	8.05	6.45	4.89

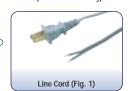
<sup>\*</sup> Thermoplastic Cord Jacket Type: SPT-2 (Flat): Junior duty; SVT (Round): Light service; SJT (Round): Junior service 



J	3-conaucto	r power cor	а (р	owe	r strip :	saver,	,					
	199777CH	PSS-1	.16	12	1'	Black	18/3	SVT	\$1.69	\$1.55	\$1.39	\$1.25
	208338CH	SV0527RG	16	12	1'	Reine	18/3	SVT	1 60	1 45	1 00	1 03

3-condcuto	r power co	rd ("	Y" ty	ре рои	er str	ip sa	/er)

Thermoplastic Cord Jacket Type: SPT-2 (Flat): Junior duty; SVT (Round): Light service; SJT (Round): Junior service















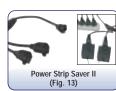




























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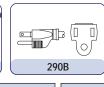
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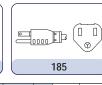






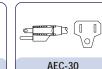






Volex Plug/Rec.







Part	Volex		Plug			AWG	Cord				Part	Volex		Plug	Retract.	Exten.	AWG	Cord		Pric	ce	
Number	X-Ref.	Fig.	Fig.	Length	Color	(Stranding)	Type*		1 1	0 100	250	Number	X-Ref.	Fig.	Fig.	Length	Length	(Stranding)	Type*	1	10	100
3-conductor power cord, NEMA 5-15P plug, PVC 2-conductor retractable power cord, unshielded																						
339670CH	17239	4	290B	8'	Gray	18/3(41x34)	SVT	\$2.79	\$2.05	\$1.95	\$1.88	340523CH	8879	18	_	8"	5'	20/2(42x36)	_	\$11.19	\$10.24	\$9.18
339688CH	17407	4	290B	8'	Gray	18/3(16x30)	SIT	2 79	2.08	1 97	1 90											

007000011	17.107		2,00	-	,	10/0(10/00)																	
339717CH	17276	4	290B	20'	Gray	16/3(26x30)	SJT	8.59	6.44	6.11	5.84	Part	Volex										
2 conduct	Number	X-Ref.	Fi																				
3-conduct	2 conduc	for nou	_																				
												3-conductor power											
339813CH	17238	4 1	290B	8'	Black i	18/3(41x34)	SVT	\$3.55	\$2.62	\$2.48	\$2.41	220041011	· / ·										

339813CH	17238	4	290B	8'	Black	18/3(41x34)	SVT	\$3.55	\$2.62	\$2.48	\$2.41	۱.,	<u></u>
339830CH	17412	14	290B	12'	Black	18/3(41x34) 18/3(16x30) 18/3(16x30) 16/3(26x30)	SJT	6.05	4.48	4.26	4.11	:	33
339696CH	17409	14	290B	8'	Black	18/3(16x30)	SJ0	4.85	3.62	3.43	3.28	:	34
339709CH	17425	14	290B	15'	Black	16/3(26x30)	SJT	11.05	10.07	8.15	7.30	:	34
												- 15	34

3-conduct	3-conductor power cord, NEMA 5-15P plug, shielded														
339750CH	17720	14	290B	6'7"	Black	18/3(41x34)	SVT	\$3.19	\$3.03	\$2.88	\$2.7				
339768CH	17740 <b>†</b>	14	290B	6'7"	Black	18/3(41x34)	SVT	3.15	2.99	2.85	2.7				
339776CH	17650 <sup>†</sup>	<sup>†</sup> 14	290B	6'7"	Black	18/3(41x34)	SVT	9.45	7.06	7.03	6.3				
339792CH	17614	14	185	6'7"	Black	16/3(65x34)	SJT	4.09	3.88	3.69	2.9				

339768CH	1//40	14	290B	6.1.	Black	[18/3(41x34)]	SVI	3.15	2.99	2.85	2.70
339776CH	17650 <sup>†</sup>	<sup>†</sup> 14	290B	6'7"	Black	18/3(41x34)	SVT	9.45	7.06	7.03	6.33
339792CH	17614	14	185	6'7"	Black	16/3(65x34)	SJT	4.09	3.88	3.69	2.98
339805CH	17616	14	173	6'7"	Black	14/3(41x30)	SJT	5.19	4.94	4.69	4.46
339864CH	17613	14	290B	9'10"	Black	18/3(41x34)	SJT	5.49	4.05	3.88	3.71
339899CH	17741	14	290B	9'10"	Black	18/3(41x34)	SVT	6.29	5.79	5.21	4.69
339910CH	17615	14	185	9'10"	Black	16/3(35x34)	SJT	4.95	4.85	4.80	4.79
339928CH	17617	14	173	9'10"	Black	14/3(41x30)	SJT	6.45	6.12	6.10	6.05

3-conduct	or pow	er co	ord, NE	MA 5-	15P p	lug, unshie	lded			
339653CH	17747 <sup>†</sup>	14	290B	6'7"	Black	18/3(41x34)	SVT	\$2.65	\$2.35	\$2.14
339661CH	17514	14	290B	6'7"	Black	16/3(65x34)	SJT	3.65	3.27	2.94
339733CH	17534	14	290B	6'7"	Black	18/3(41x34)	SVT	2.35	1.74	1.65

339661CH	17514	14	290B	6'7"	Black	16/3(65x34)	SJT	3.65	3.27	2.94	2.65
339733CH	17534	14	290B	6'7"	Black	18/3(41x34)	SVT	2.35	1.74	1.65	1.60
339741CH	17512	14	290B	6'7"	Black	18/3(41x34)	SJT	2.59	2.36	2.16	1.94
339784CH	17516	14	173	6'7"	Black	14/3(41x30)	SJT	4.69	4.02	3.75	3.44
339872CH	17513	14	290B	9'10"	Black	18/3(41x34)	SJT	3.59	3.22	2.93	2.64
339881CH	17515	14	290B	9'10"	Black	16/3(65x34)	SJT	3.79	3.70	3.60	3.54
339901CH	17517	14	173	9'10"	Black	14/3(41x30)	SJT	5.99	5.54	4.99	4.48

## 3-conductor power cord, NEMA, PVC

339944CH	17405	14	290B	6'	Gray	18/3(16x30)	SJT	\$2.45	\$1.78	\$1.74	\$1.63

## 3-conductor R/A power cord, shielded

339995CH	17751	16	RtAng	6'7"	Black	18/3(41x34)	SVT	\$4.05	\$3.81	\$3.62	\$3.44

#### 3-conductor power cord, unshielded

339987CH	17518	15	386A	6'7"	Black	18/3(41x34)	SJT	\$3.65	\$3.08	\$2.81	\$2.53
340005CH	17520	15	386E	6'7"	Black	18/3(26x30)	SJT	2.95	2.79	2.65	2.51
340021CH	17254	15	386	7'6"	Black	18/3(41x34)	SVT	2.55	2.42	2.30	2.19
340056CH	17537	16	PH910	9'10"	Black	18/3(41x34)	SJT	3.85	3.66	3.47	3.30
340064CH	17519	15	386A	9'10"	Black	18/3(41x34)	SJT	3.29	3.14	2.98	2.83
340072CH	17521	15	386E	9'10"	Black	16/3(26x30)	SJT	3.69	3.54	3.36	3.19
340099CH	17539	16	PH910	9'10"	Black	16/3(26x30)	SJT	4.49	4.27	4.05	4.04

#### 3-conductor retractable power cord, rubber insulated

340451CH											
340460CH	17449	19	173	2'-12'	Black	16/3(26x30)	SJ0	16.55	12.35	11.73	11.19
340478CH	17447	19	290B	1'-6'	Black	18/3(41x34)	SJ0	12.85	9.59	9.11	8.69

#### 3-conductor power cord, "Y" twin end 340558CH | 17272A | 13 | AEC-30 | 6' | Black | 18/3(41x34) | Y | \$7.59 | \$5.67 | \$5.38 | \$5.13

- 1	010000011	1121211	10	1160 00	0	Didok	10/0(11/01)		Ψ1.07	Ψ0.07	Ψ0.00	Ψ0.10
:	340566CH	17268A	20	_	6'	Black	18/3(41x34)	Υ	7.85	5.84	5.55	5.29
;	340574CH	17270A	20	_	6'	Black	16/3(26x30)	Υ	8.85	6.62	6.29	6.00
:	340531CH	17269A	20	_	10'	Black	18/3(41x34)	Υ	9.55	7.16	6.80	6.48
	340540CH	17271A	20	_	10'	Black	16/3(26x30)	Υ	10.65	7.97	7.57	7.22

40574CH	17270A	20	_	6'	Black	16/3(26x30)	Υ	8.85	6.62	6.29	
40531CH	17269A	20	_	10'	Black	18/3(41x34)	Υ	9.55	7.16	6.80	
40540CH	17271A	20	-	10'	Black	16/3(26x30)	Υ	10.65	7.97	7.57	

340486CH 17524 9 388A/386A 3'3" Black 18/3(41x34) SJT \$3.65 \$3.31 \$2.98 \$2.68

\*Thermoplastic Cord Jacket Type: SPT-2 (Flat): Junior duty; SVT (Round): Light service; SJT (Round): Junior service; SJO (Round): Junior service with oil-resistant jacket | † Temperature rating: 105°C | †† Foil and braid shielded



• Excellent resistance to jacket abrasion

2-conductor power cord with pigtail with strain relief

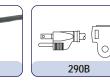
Molded connectors

	AWG	Volts	Amps
media	18	125	10
SIVE	16	125	13
	14	125	15

<b>alue</b> Pro	<ul> <li>Temperature: 60°C; 125V</li> <li>Conductors stripped and twisted 5/8"</li> <li>Outer jacket stripped 2"</li> </ul>











173	AEC-30

						$\cup$				_
		185			173			Al	EC-30	
Volex		Plug	Retract.	Exten.	AWG	Cord		Pr	ice	
V Dof	Eia	Fig	Longth	Longth	(Ctronding)	Tuno*	1	10	100	2

Part	Volex		Plug	Retract.	Exten.	AWG	Cord		Pr	ice	
Number	X-Ref.	Fig.	Fig.	Length	Length	(Stranding)	Type*	1	10	100	25
2-conduct	tor retra	actak	ole pov	ver cor	d, uns	shielded					

340523CH	8879	18	_	8"	5'	20/2(42x36)	_	\$11.19	\$10.24	\$9.18	\$8.26
Part	Volex		Recept.			AWG	Cord		Pri	ce	
Number	X-Ref.	Fig.	Fig.	Length	Color	(Stranding)	Type*	1	10	100	250

11	3-conductor power cord, shielded 339961CH   17749   15   386A   6'7"   Black   18/3(41x34)   SVT   \$2.85   \$2.79   \$2.73   \$2.00														
11	339961CH	17749	15	386A	6'7"	Black	18/3(41x34)	SVT	\$2.85	\$2.79	\$2.73	\$2.67			
00	340013CH	17620	15	386E	6'7"	Black	16/3(65x34)	SJT				4.11			
30	340030CH	17750	15	386A	9'10"	Black	18/3(41x34)	SVT	3.99	3.85	3.63	3.45			
	340081CH		15	386E	9'10"	Black	16/3(65x34)	SJT	5.39	5.17	4.91	4.67			

Number	X-Ref.	Fig.	Fig.	Length	Color	(Stranding)	Type*	1	10	100	25
3-conduct	or R/A	deta	chable po	wer c	ord, s	hielded, Pl	/C				
340128CH	17745	7	290B/PH910	6'7"	Black	18/3(41x34)	SVT	\$3.79	\$3.62	\$3.43	\$3.2
340152CH	17606	7	290B/PH910	6'7"	Black	18/3(41x34)	SJT	7.65	7.03	6.34	5.7
340179CH	17608	7	185/PH910	6'7"	Black	16/3(65x34)	SJT	5.45	5.16	4.90	4.6

AWG Cord

340224CH	17746	7	290B/PH910	9'10"	Black	18/3(41x34)	SVT	5.15	3.88	3.69	3.49
340232CH	17607	7	290B/PH910	9'10"	Black	18/3(41x34)	SJT	9.29	8.47	7.62	6.86
340259CH	17609	7	185/PH910	9'10"	Black	16/3(65x34)	SJT	10.59	9.60	8.71	7.84
3-conduct	tor R/A	deta	chable po	wer c	ord, u	ınshielded,	PVC				
340321CH	17506	7	290B/PH910	6'7"	Black	18/3(41x34)	SJT	\$4.09	\$3.72	\$3.35	\$3.02

## 340355CH | 17508 | 7 | 290B/PH910 | 6'7" | Black | 16/3(26x30) | SJT | 2.59 | 2.47 | 2.35 | 2.33 3-conductor detachable power cord, shielded, PVC

340101CH	17725	17	290B/386A	6'7"	Black	18/3(41x34)	SVT	\$4.15	\$3.79	\$3.45	\$3.17
340110CH	17742	17	290B/386A	6'7"	Black	18/3(41x34)	SVT	3.49	3.14	2.85	2.60
340144CH	17600	17	185/386A	6'7"	Black	18/3(41x34)	SJT	7.85	6.89	6.20	5.58
340161CH	17602	17	290B/386A	6'7"	Black	16/3(65x34)	SJT	5.15	5.04	4.93	3.93
340187CH	17604	17	173/386A	6'7"	Black	14/3(41x30)	SJT	9.29	8.67	7.78	7.26
340195CH	17743	17	290B/386A	9'10"	Black	18/3(41x34)	SVT	5.29	4.90	4.45	4.09
340208CH	17601	17	185/386A	9'10"	Black	18/3(41x34)	SJT	5.29	5.10	4.60	4.13
340241CH	17603	17	290B/386A	9'10"	Black	16/3(65x34)	SJT	5.75	5.46	5.18	4.93
340267CH	17605	17	173/386A	9'10"	Black	14/3(41x30)	SJT	11.45	10.54	9.57	8.79

#### 3-conductor detachable power cord, foil shielded, PVC 340136CH 17660 17 290B/386A 6'7" Black 18/3(41x34) SVT \$10.59 \$7.90 \$7.51 \$7.16

	3-conduct	or deta	chal	hle nower	cord	unshi	ielded PVC					
	340216CH	17661	17	290B/386A	9'10"	Black	18/3(41x34)	SVT	13.49	10.08	9.58	9.14
. 1	340130011	17000	17	270D/300M	0 /	Diack	10/3(41834)	301	\$10.37	\$1.70	\$1.51	\$1.10

340275CH	17002A	17	290B/386A	1.0	BIACK	18/3(41X34)	501	\$1.39	\$1.28	\$1.21	\$1.1
340283CH	17000A	17	290B/386	3'	Black	18/3(41x34)	SVT	1.85	1.37	1.30	1.2
340291CH	17001A	17	290B/386A	3'	Black	16/3(26x30)	SJT	3.69	2.72	2.59	2.5
340304CH	17249	17	290B/386	6'	Black	18/3(41x34)	SVT	10.59	1.52	1.40	1.3
340312CH	17758	17	290B/386A	6'7"	Black	18/3(41x34)	SJT	4.95	4.56	4.09	3.6
340339CH	17500	17	290B/386A	6'7"	Black	18/3(41x34)	SJT	2.55	2.14	1.95	1.7
340347CH	17502	17	290B/386E	6'7"	Black	16/3(26x30)	SJT	4.25	3.78	3.42	3.1
340363CH	17504	17	173/386A	6'7"	Black	14/3(41x30)	SJT	4.19	3.75	3.36	3.0
340380CH	17757 <b>†</b>	17	290B/386A	7'6"	Black	18/3(41x34)	SVT	2.45	2.16	1.96	1.7
340401CH	17255	17	290B/386E	7'6"	Black	16/3(26x30)	SJT	4.15	3.04	2.88	2.8
340419CH	17501	17	290B/386A	9'10"	Black	18/3(41x34)	SJT	2.79	2.45	2.23	2.2

3-conductor jumper power cord, shielded
---

340515CH	17625	9	388B/386E	3'3"	Black	16/3(26x30)	SJT	\$6.59	\$6.09	\$5.48	\$4.93
3-conduc	tor jum	per p	ower cord	, uns	hielde	ed					

	18	125	10	1250
	16	125	12	1500
	14	125	15	1875
1				

AWG Volts Amps VA

Number	Ref. No.	Wt.	Fig.	Length	Color	AWG	Type*	1	10	100	250	Number	Ref. No.	Wt.	Fig.	Length	Color	AWG	Type*	1	10	100	250
2-conducto	or power co		3-conducto	or monitor <sub>l</sub>	owe	r ad	apter	cord															
152186CH	17106BG	.20	1	6'	Beige	18/2	SPT-2	\$1.29	\$1.16	\$1.04	\$.92	177447CH	MPC1	.16	11	1'	Black	18/3	SVT	\$2.95	\$2.66	\$2.12	\$1.59
124433CH	ST008	.16	1	6'	Black	18/2	SPT-2	1.15	1.03	.83	.69	3-conducto	or nower co	rd (r	OWE	r strin	saver	)					

**Quantity SAVE** 

42041CH	17106	.25	1	6'	Black	18/2 S	SPT-2	\$1.15	\$1.03	\$.93	\$.78	208338CH	SY0527BG	.16	12	1'	Beige	18/3	SVT	1.69	1.45	1.09	1.03
2-conducto	or "8" style µ	owe	r co	rd for l	aptops	and p	oower.	supplie	es			3-condcuto	r power cor	d ("	Y" ty	ре рои	er str	ip sav	rer)				

Voltage rating: 300 volts

• Temperature: -20°C to +60°C

2-conducto	or "D" style į	oow	er co	rd for l	aptop	s and	powe	r suppl	ies		
200791CH	LL114039	.30	3	6'	Black	18/2	SPT-2	\$2.95	\$2.69	\$2.39	\$1.45

3-conducto	or power coi	d w	ith p	igtail							
38009CH	17237	.31	4	6'	Gray	18/3	SVT	\$2.39	\$2.15	\$1.72	\$1.29
173809CH	17405	.39	4	6'	Gray	18/3	SJT	2.35	2.15	1.89	1.59
37997CH	17236	.30	4	6'	Black	18/3	SVT	2.79	2.32	2.11	1.99
279662CH	32V86S	.32	4	6'	Black	18/3	SVT	2.79	2.32	2.11	1.99
159409CH	17405B	.37	4	6'	Black	18/3	SJT	2.59	2.15	1.95	1.79
38025CH	17238	.39	4	8'	Black	18/3	SVT	3.29	2.75	2.45	2.25
102007CH	17535B	.49	4	10'	Black	18/3	SVT	3.25	2.92	2.63	2.20

80 4 10' Black 16/3 SJT 3.49 3.14 2.83 2.35

Black 14/3 SJT 4.25 3.82 3.06 2.37

3.95 3.56 3.20 2.88

3-conducto	r riaht anal	$\alpha n r$	MACE	cord w	ith ni	atail /	I imita	ובוווו אב	atitu /lu	ailahla	വ
J-conucto	ı ııuın anuı	$-\nu$	WCI	COIGW	ונוו טונ	alan l		-u Quai	ILILV AV	anavic	71

.67 4 6' 7" Black 14/3 SJT

	184815CH	17629BR <b>⊙</b>	.77	5	7'	Black	14/3	SJT	\$2.35	\$2.10	\$1.89	\$1.86
	3-conducto	r power sup	ply	cora	(shiel	ded)						
늢	213874CH	17660BG	.40	6	6'	Beige	18/3	SVT	\$3.59	\$3.25	\$2.95	\$2.65
Power	161761CH	17742	.40	6	6'	Black	18/3	SVT	4.49	4.04	3.23	2.42
ے	229219CH	9350819	.45	6	8'	Black	18/3	SJT	4.49	4.04	3.23	2.42
	190625CH	37805	.75	6	10'	Beige	18/3	SJT	3.49	3.14	2.51	1.88
	142607CH	17502	.63	6	6'	Black	16/3	SJT	4.19	3.77	3.02	2.26

## 3-conductor power supply cord

1140378

17516

196285CH 166924CH

100271CH

103747CH	17248	.34	6	6'	Gray	18/3	SVT	\$3.89	\$3.50	\$2.80	\$2.49
38041CH	17249	.37	6	6'	Beige	18/3	SVT	3.49	3.15	2.79	2.49
38050CH	17250	.36	6	6'	Black	18/3	SVT	3.75	3.29	2.89	2.17
132118CH	17500	.44	6	6'	Black	18/3	SJT	4.49	4.04	3.23	2.42
117583CH	17502	.37	6	8'	Gray	18/3	SVT	3.49	3.14	2.83	2.54
171096CH	17758	.60	6	8'	Black	18/3	SJT	3.95	3.56	2.84	2.13
102023CH	17501V	.55	6	10'	Black	18/3	SVT	3.95	3.39	3.09	2.79
192727CH	17501J	.64	6	10'	Black	18/3	SJT	3.95	3.56	2.84	2.13
163361CH	6952299	.33	6	14'	Black	18/3	SJT	5.39	4.85	4.39	3.95
159361CH	17602	.57	6	6'	Black	16/3	SJT	3.79	3.41	2.73	2.05
249383CH	LL34977	.72	6	9'	Black	16/3	SJT	3.95	3.55	3.19	2.89
125541CH	17504	.71	6	6' 7"	Black	14/3	SJT	4.95	4.46	4.01	3.12

#### 3-conductor right angle power supply cord (shielded)

173251CH	17250RS	.40	7	6'	Black	18/3	SVT	\$3.29	\$2.96	\$2.66	\$2.40			
3-conducto	3-conductor right angle power supply cord													
117356CH	8120-6177	.41	7	6'	Gray	18/3	SVT	\$3.95	\$3.19	\$2.39	\$1.69			
38076CH	17250R	.54	7	6'	Black	18/3	SVT	3.49	3.15	2.85	2.55			
177383CH	17507	.66	7	10'	Black	18/3	SJT	3.95	3.59	3.19	2.69			

#### 3-conductor piggy backed computer power cord 84937CH 17669-6 .47 8 6' Black 18/3 SJT \$6.95 \$6.25 \$5.65 \$4.75

3-conducto	or computer	рои	ver s	upply є	extens	ion c	ord				
28468CH	PEC	.36	9	6'	Black	18/3	SVT	\$3.89	\$3.51	\$2.81	\$2.11
175855CH	PECUL10	.53	9	10'	Black	18/3	SVT	3.29	2.96	2.66	2.40
319804CH	LR94903	33	9	6'	Grav	18/3	SVT	4 15	3 39	3 15	2.95

### 3-conductor power cord w/ hospital grade male (green dot)

132011CH	17006G	.82	10	10'	Gray	16/3	SJT	\$8.45	\$7.61	\$6.84	\$6.16
265412CH								7.99			
115078CH	17006	.84	10	10'	Black	16/3	SJT	8.95	8.05	6.45	4.89

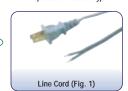
<sup>\*</sup> Thermoplastic Cord Jacket Type: SPT-2 (Flat): Junior duty; SVT (Round): Light service; SJT (Round): Junior service 



J	3-conaucto	r power cor	а (р	owe	r strip :	saver,	,					
	199777CH	PSS-1	.16	12	1'	Black	18/3	SVT	\$1.69	\$1.55	\$1.39	\$1.25
	208338CH	SV0527RG	16	12	1'	Reine	18/3	SVT	1 60	1 45	1 00	1 03

3-condcuto	r power co	rd ("	Y" ty	ре рои	er str	ip sa	/er)

Thermoplastic Cord Jacket Type: SPT-2 (Flat): Junior duty; SVT (Round): Light service; SJT (Round): Junior service















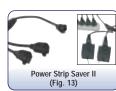




























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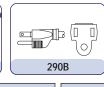
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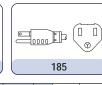








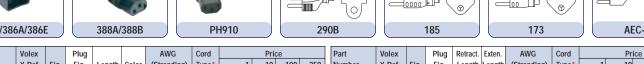




Volex Plug/Rec.







Part	Volex		Plug			AWG	Cord		P	rice		Part	Volex		Plug	Retract.	Exten.	AWG	Cord		Pric	ce
Number	X-Ref.	Fig.	Fig.	Length	Color	(Stranding)	Type*		1 1	0 100	250	Number	X-Ref.	Fig.	Fig.	Length	Length	(Stranding)	Type*	1	10	100
3-conductor power cord, NEMA 5-15P plug, PVC 2-conductor retractable power cord, unshielded																						
339670CH	17239	4	290B	8'	Gray	18/3(41x34)	SVT	\$2.79	\$2.05	\$1.95	\$1.88	340523CH	8879	18	_	8"	5'	20/2(42x36)	_	\$11.19	\$10.24	\$9.18
339688CH	17407	4	290B	8'	Gray	18/3(16x30)	SIT	2 79	2.08	1 97	1 90											

007000011	17.107		2,00	-	,	10/0(10/00)								
339717CH	17276	4	290B	20'	Gray	16/3(26x30)	SJT	8.59	6.44	6.11	5.84	Part	Volex	
2 conduct	3-conductor power cord, NEMA 5-15P plug, rubber													
3-conduct	or pow	er cc	II a, IVE			3,						3-conduct	for nou	_
339813CH   17238   4   290B   8'   Black   18/3(41x34)   SVT   \$3.55   \$2.62   \$2.48   \$2.41														
339813CH	17238	4 1	290B	8'	Black i	18/3(41x34)	SVT	\$3.55	\$2.62	\$2.48	\$2.41	220041011	· r ·	

339813CH	17238	4	290B	8'	Black	18/3(41x34)	SVT	\$3.55	\$2.62	\$2.48	\$2.41	۱.,	<u></u>
339830CH	17412	14	290B	12'	Black	18/3(41x34) 18/3(16x30) 18/3(16x30) 16/3(26x30)	SJT	6.05	4.48	4.26	4.11	:	33
339696CH	17409	14	290B	8'	Black	18/3(16x30)	SJ0	4.85	3.62	3.43	3.28	:	34
339709CH	17425	14	290B	15'	Black	16/3(26x30)	SJT	11.05	10.07	8.15	7.30	:	34
												- 15	34

3-conduct	or pow	er co	ord, NE	MA 5-	15P p	lug, shield	ed				
339750CH	17720	14	290B	6'7"	Black	18/3(41x34)	SVT	\$3.19	\$3.03	\$2.88	\$2.7
339768CH	17740 <b>†</b>	14	290B	6'7"	Black	18/3(41x34)	SVT	3.15	2.99	2.85	2.7
339776CH	17650 <sup>†</sup>	<sup>†</sup> 14	290B	6'7"	Black	18/3(41x34)	SVT	9.45	7.06	7.03	6.3
339792CH	17614	14	185	6'7"	Black	16/3(65x34)	SJT	4.09	3.88	3.69	2.9

339768CH	1//40	14	290B	6.1.	Black	[18/3(41x34)]	SVI	3.15	2.99	2.85	2.70
339776CH	17650 <sup>†</sup>	<sup>†</sup> 14	290B	6'7"	Black	18/3(41x34)	SVT	9.45	7.06	7.03	6.33
339792CH	17614	14	185	6'7"	Black	16/3(65x34)	SJT	4.09	3.88	3.69	2.98
339805CH	17616	14	173	6'7"	Black	14/3(41x30)	SJT	5.19	4.94	4.69	4.46
339864CH	17613	14	290B	9'10"	Black	18/3(41x34)	SJT	5.49	4.05	3.88	3.71
339899CH	17741	14	290B	9'10"	Black	18/3(41x34)	SVT	6.29	5.79	5.21	4.69
339910CH	17615	14	185	9'10"	Black	16/3(35x34)	SJT	4.95	4.85	4.80	4.79
339928CH	17617	14	173	9'10"	Black	14/3(41x30)	SJT	6.45	6.12	6.10	6.05

3-conduct	or pow	er co	ord, NE	MA 5-	15P p	lug, unshie	lded			
339653CH	17747 <sup>†</sup>	14	290B	6'7"	Black	18/3(41x34)	SVT	\$2.65	\$2.35	\$2.14
339661CH	17514	14	290B	6'7"	Black	16/3(65x34)	SJT	3.65	3.27	2.94
339733CH	17534	14	290B	6'7"	Black	18/3(41x34)	SVT	2.35	1.74	1.65

339661CH	17514	14	290B	6'7"	Black	16/3(65x34)	SJT	3.65	3.27	2.94	2.65
339733CH	17534	14	290B	6'7"	Black	18/3(41x34)	SVT	2.35	1.74	1.65	1.60
339741CH	17512	14	290B	6'7"	Black	18/3(41x34)	SJT	2.59	2.36	2.16	1.94
339784CH	17516	14	173	6'7"	Black	14/3(41x30)	SJT	4.69	4.02	3.75	3.44
339872CH	17513	14	290B	9'10"	Black	18/3(41x34)	SJT	3.59	3.22	2.93	2.64
339881CH	17515	14	290B	9'10"	Black	16/3(65x34)	SJT	3.79	3.70	3.60	3.54
339901CH	17517	14	173	9'10"	Black	14/3(41x30)	SJT	5.99	5.54	4.99	4.48

## 3-conductor power cord, NEMA, PVC

339944CH	17405	14	290B	6'	Gray	18/3(16x30)	SJT	\$2.45	\$1.78	\$1.74	\$1.63

## 3-conductor R/A power cord, shielded

339995CH	17751	16	RtAng	6'7"	Black	18/3(41x34)	SVT	\$4.05	\$3.81	\$3.62	\$3.44

#### 3-conductor power cord, unshielded

339987CH	17518	15	386A	6'7"	Black	18/3(41x34)	SJT	\$3.65	\$3.08	\$2.81	\$2.53
340005CH	17520	15	386E	6'7"	Black	18/3(26x30)	SJT	2.95	2.79	2.65	2.51
340021CH	17254	15	386	7'6"	Black	18/3(41x34)	SVT	2.55	2.42	2.30	2.19
340056CH	17537	16	PH910	9'10"	Black	18/3(41x34)	SJT	3.85	3.66	3.47	3.30
340064CH	17519	15	386A	9'10"	Black	18/3(41x34)	SJT	3.29	3.14	2.98	2.83
340072CH	17521	15	386E	9'10"	Black	16/3(26x30)	SJT	3.69	3.54	3.36	3.19
340099CH	17539	16	PH910	9'10"	Black	16/3(26x30)	SJT	4.49	4.27	4.05	4.04

#### 3-conductor retractable power cord, rubber insulated

340451CH											
340460CH	17449	19	173	2'-12'	Black	16/3(26x30)	SJ0	16.55	12.35	11.73	11.19
340478CH	17447	19	290B	1'-6'	Black	18/3(41x34)	SJ0	12.85	9.59	9.11	8.69

#### 3-conductor power cord, "Y" twin end 340558CH | 17272A | 13 | AEC-30 | 6' | Black | 18/3(41x34) | Y | \$7.59 | \$5.67 | \$5.38 | \$5.13

- 1	010000011	1121211	10	1160 00	0	Didok	10/0(11/01)		Ψ1.07	Ψ0.07	Ψ0.00	Ψ0.10
:	340566CH	17268A	20	_	6'	Black	18/3(41x34)	Υ	7.85	5.84	5.55	5.29
;	340574CH	17270A	20	_	6'	Black	16/3(26x30)	Υ	8.85	6.62	6.29	6.00
:	340531CH	17269A	20	_	10'	Black	18/3(41x34)	Υ	9.55	7.16	6.80	6.48
	340540CH	17271A	20	_	10'	Black	16/3(26x30)	Υ	10.65	7.97	7.57	7.22

40574CH	17270A	20	_	6'	Black	16/3(26x30)	Υ	8.85	6.62	6.29	
40531CH	17269A	20	_	10'	Black	18/3(41x34)	Υ	9.55	7.16	6.80	
40540CH	17271A	20	-	10'	Black	16/3(26x30)	Υ	10.65	7.97	7.57	

340486CH 17524 9 388A/386A 3'3" Black 18/3(41x34) SJT \$3.65 \$3.31 \$2.98 \$2.68

\*Thermoplastic Cord Jacket Type: SPT-2 (Flat): Junior duty; SVT (Round): Light service; SJT (Round): Junior service; SJO (Round): Junior service with oil-resistant jacket | † Temperature rating: 105°C | †† Foil and braid shielded



**European Agency Approvals** 

CEBEC (EBC) (D)

FIMKO Ð

LCIE

Fig. 3

France

<u>@</u>

(VE)

(11) KENA **(N)** (S) (3)

#### Class 1 Current Transformer

This series can be applied to test, control, display, and record the running of electrical equipment, and to protect the equipment against damage in the AC circuit.

· Maximum voltage: 660VAC

Part No.

174887CH

Size: 3.0"L x 3.2"W x 1.6"T

MSQ30

· Frequency: 50-60Hz

Ratio

· Weight: 1.1 lbs.

Includes: Mounting bracket and hardware Mfr. Cross Ref. No.



**Current Sensing Transformer** 

• Inductance: 5mH • Turns: 60

Sensitivity current (I<sub>in</sub>): 1A

Max. current: 300mA

• Freq. range: 10-50 kHz • Sensitivity voltage (V<sub>out</sub>): 1V

• Terminating resistor:  $50\Omega$ Size: 0.8"H x 0.7"W x 0.4"T

Part No. Mfr. Cross Ref. No. 10 **164718CH** MTC30101 ......\$2.15 \$1.95



- · 3-conductor detachable power cords
- · Excellent resistance to jacket abrasion
- · Voltage rating: 300 volts

Cord Configuration Chart - End 1

· BSI: British Standard Institution







174633CH (Fig. 2)

Part	Mfr. Cross		Agency	Cord P	lug Fig.		Cord		Cord		Pri	cing	
Number	Reference No.*	Country	Approvals	End 1	End 2	Length	Color	Conductors	Туре	1	10	100	250
117911CH	PCVDE-6B	Europe	All in Fig. 3	Α	1	6 ft.	Black	3/.75mm <sup>2</sup>	H05VVF	\$5.49	\$4.95	\$4.45	\$3.75
174633CH	21071H5182	UK/Ireland	BSI	Α	2	8 ft.	Black	3/1.0mm <sup>2</sup>	H05VVF	6.49	5.84	5.26	4.73
4													

Manufacturer may vary



## Power Entry Filters and AC Receptacles













· Frequency: 50/60Hz

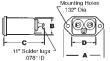


Fig. 1 (Solder Terminals)

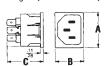


Fig. 5 (Female)

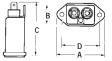


Fig. 2 (Fast-on Terminals)



Fig. 7



Fig. 3 (210913CH)



Fig. 4 (Male)



(	a	7	N
Fig. 8 265527CH)	A		y

Part	Mfr. Cross	Corcom			Current	Voltage		Agency	Terminal	ן ט	imensio	n (inche	s)		Pric	ing	
Number	Ref. No.	Cross	Description	Fig.	(A)	(VAC)	Terminals	Approvals	Size	Α	В	С	D	1	10	100	500
150615CH	03AC1	3EF1	Power entry filter, straight (flanged)	1	3	250	solder	UL/CSA/VDE	.16"	1.89	0.88	2.58	1.58	\$5.95	\$5.36	\$4.82	\$4.34
42454CH	06AC1	6EF1	Power entry filter, straight (flanged)	1	6	250	solder	UL/CSA/VDE	.16"	1.96	0.88	2.06	1.58	8.95	8.06	6.44	4.83
40601CH	03AE1*	3EF1F	Power entry filter, straight (flanged)	2	3	250	fast-on	UL/CSA/VDE	.25"	1.97	0.90	2.16	1.58	5.95	5.36	4.28	3.19
63132CH	06AE1	6EF1F	Power entry filter, straight (flanged)	2	6	250	fast-on	UL/CSA/VDE	.16"	1.96	0.88	2.06	1.58	6.95	6.29	5.65	5.09
217744CH	10AE1 <b>≎</b>	10EF1F	Power entry filter, straight (flanged)	2	10	250	fast-on	UL/CSA/VDE	.25"	1.96	0.89	2.23	1.58	2.65	2.41	2.19	1.99
210913CH	01GEEW3E		Power entry filter, straight (flanged)	3	1	250	wire	UL/CSA/VDE	4.1"	2.05	0.99	1.78	1.58	5.95	5.36	4.28	3.19
16651CH	JR101		AC power inlet (male) flanged	4	15	250	fast-on	UL/CSA/VDE	.187"	1.96	0.89	1.07	1.58	.79	.71	.57	.41
218288CH	0708-1-C0	)	AC power outlet (female) flanged	5	10	250	fast-on	UL/CSA/VDE	.189"	1.97	1.14	1.27	1.58	.42	.39	.35	.32
117444CH	0717 <sup>1</sup>		AC power inlet (male) fused (snap-in)	6	10	250	fast-on	UL/CSA/VDE	.187"	1.18	1.30	1.21	N/A	1.95	1.79	1.59	1.45
265527CH	WS-044	AC power inlet (male) fused		8	10	250	fast-on	UL/CSA/VDE	.185"	1.73	1.29	0.77	1.42	1.79	1.59	1.39	1.29
321621CH	WS-044A		AC power inlet (male) fused (snap-in)		10	250	fast-on	UL/CSA/VDE	.185"	1.73	1.29	0.77	1.42	1.79	1.59	1.39	1.29

Fig.6

(117444CH)

	Other Manufacturers — Limited Great Deals															
165016CH	SUP-J15G-E-2	Power entry filter, straight (flanged)	1	15	250	solder	UL/CSA/VDE	.16"	1.89	0.88	2.18	1.58	\$5.95	\$5.36	\$4.28	\$3.21
147109CH	42R02	AC power inlet (male) snap-in	4	15	250	fast-on	UL/CSA/VDE	.25"	1.22	0.94	1.13	N/A	.26	.23	.21	.19
147900CH	P0707*	AC power inlet (male) flanged	4	15	250	solder	UL/CSA/VDE	.16"	1.96	0.89	1.04	1.58	.69	.62	.50	.37
18/1903CH	/2R363152IOII	AC nower inlet (male) w/ switch (snan-in)	7	15	250	fast-on	LIL/CSA/VDE	25"	1 30	1 58	1 // 2	NI/A	1 05	1 69	1 30	(1.05)

<sup>\*</sup> Manufacturer may vary 1 Includes spare fuse holder – Fuse type 5mm x 20mm (250V) Blue Part No. = Limited Quantity Available



#### **Lowest Price Guarantee**

Found a product at a lower print advertised price? We'll beat that price by 10% right down to our cost!

#### **Need Power Cords?**

See our extensive selection of power cords on pages 180-181.





#### **Lead Acid Batteries**

- Rechargeable

















264014CH 264022CH 264031CH 264049CH 264057CH 264073CH 264065CH

Part	Product	Nominal			Cross Ref	ference			Size		Pric	ing
Number	Number	Voltage	Amp-Hrs.	Panasonic	YUASA	Eagle Picher	Tempest	Terminal Size	(L" x W" x H")	Wt. (lbs.)	1	10
264014CH	TY-6-4.5	6	4.5	LCR6VP	NP4-6	CF16V4	TR-4-6	Quick connect 0.187"	2.8 x 1.9 x 4.0	1.9	\$8.99	\$7.89
317024CH	LA-TY-6-12	6	12.0	_	_	_	_	Quick connect 0.187"	5.9 x 1.9 x 3.7	4.6	14.69	12.75
318941CH	LA-TY-128	12	0.8	_	_	_	_	9" wire w/o connector	3.8 x 1.0 x 2.4	0.8	16.39	15.19
318844CH	LA-TY-12-1.2	12	1.2	_	_	_	_	Quick connect 0.187"	3.8 x 1.7 x 2.1	1.3	13.99	12.69
264031CH	TY-12-2.3	12	2.3	LCR12V2.2P	NP2.3-12	CF12V1.5	TR2.3-12	Quick connect 0.187"	7.0 x 1.3 x 2.4	2.1	15.39	14.59
318924CH	LA-TY-12-3.2	12	3.2	_	_	_	_	Quick connect 0.187"	5.3 x 2.7 x 2.4	3.1	16.19	14.69
264049CH	TY-12-4.5	12	4.5	LCR12V4PF	NP412	CF12V4	TR4-12	Quick connect 0.187"	3.5 x 2.8 x 4.0	3.8	15.79	14.55
264057CH	TY-12-7	12	7.0	LCR12V7.2BP	NP712	CFM12V65	TR7.5-12	Quick connect 0.187"	5.9 x 2.6 x 3.7	5.6	16.95	15.15
264065CH	TY-12-12	12	12.0	PS12120	_	CFM12V12	TR12-12	Quick connect 0.187"	5.9 x 3.9 x 3.9	9.0	30.65	28.25
264073CH	TY-12-18	12	18.0	LCR12V17BP	NPG18-12	CF12V18	TR18-12	Quick connect 0.472"	7.1 x 3.0 x 6.6	13.3	32.85	28.15
318852CH	LA-TY-12-35	12	35.0	—	_	_	_	Quick connect 0.644"	7.6 x 5.1 x 6.3	27.6	47.79	41.69

#### **TEMPEST** Lead Acid Batteries

- · Color-coded terminals
- · Sealed
- · Rechargeable
- Nominal voltage: 12 · UL approved • Two-year warranty



**Quantity SAVE** 





218421CH

218464CH

. ompost i	J 411 100 7		ou oompu	,		2.0.2.0			0.0
Part	Product		Charging	Voltage				Pri	cing
Number	Number	Amp-Hrs.	Standby	Cyclic	Terminal Size	Size (L" x W" x H")	Wt. (lbs.)	1	10
218421CH	TR22-12	22	13.6-13.8	14.5-14.9	Terminal pad 0.472"Dia.	7.2 x 3.0 x 6.6	15.0	\$39.95	\$35.95
218464CH	TR70-12B	70	13.6-13.8	14.5-14.9	Quick connect 0.590"	10.3 x 6.7 x 8.2	55.1	148.95	111.69

#### Zinc Chloride, Silver Oxide & Alkaline Batteries

Applications: personal computers, workstations, test equipment, feature telephones, copiers, fax machines, video scramblers/descramblers and remotes.

#### **Quantity SAVE**













Zinc Chlor	ide Fig. 1		Fig. 2	2	Fi	g. 3 Fig. 4	Fig. 5	Fig	. 6	
Part Number	Mfr. Cross Ref.	Figure	Size	Volts	mAh	Terminals/Connection	Dimensions	1	10	25
151087CH	AA	1	AA	1.5	700	Barrel pressure	1.9"L x 0.55"Dia. \$.22	\$.20	\$.17	\$.16
151095CH	GF6F22	3	9V	9	300	_	1.7"L x 1.0"W x 0.67"Dia.	1.25	.99	.79

#### Silver Oxide

Part Number	Mfr. Cross Ref.	Figure	Size	Volts	mAh	Terminals/Connection	Dimensions	1	10	25
140783CH	357	2	Button	1.55	1600	_	0.454"Dia.	\$1.75	\$1.49	\$1.25

#### Alkalina

AIKaiiiic										
Part Number	Mfr. Cross Ref.	Figure	Size	Volts	mAh	Terminals/Connection	Dimensions	1	10	25
249181CH	LR031.5V	4	AAA	1.5	_	3-pack	1.7"L x 0.40"Dia.	\$1.49	\$1.34	\$1.09
249455CH	_ <b>o</b>	5	AA	1.5	_	3-pack	1.97"L x 0.55"Dia.	1.29	1.23	1.16
150965CH	Rayovac 840	6	¦ –	4.5	600	Batt. pack w/con. (Apple®)	1.14"L x 0.73"W x 0.96"H	9.95	8.96	8.06
198791CH	MN1604	3	9V	9	500	_	1.7"L x 1.0"W x 0.67"H	2.85	2.55	2.29

## **Not All Are Created Alike!**

When you're choosing batteries, most think of two criteria. First, get the right size and chemistry (e.g. - AA NiMH), and second, find the lowest price. Few however, really consider how power-hungry the device is.

But just like a circuit's signal-to-noise ratio, a battery's capacity-to-demand ratio is also very important. Consider a circuit that "demands" 1,400 mA.

If powered by batteries with a 1,600 mA capacity, the ratio is about 1.14. Using a battery with 1,800 mA capacity doubles the headroom (fractional part) from 1.14 to 1.28. Stated another way, the battery can discharge significantly more before the voltage drops below threshold.

> Practical Practices Money Saving Tips for the Engineer

## Eveready® Energizer® Alkaline Batteries







198731CH



Energizer® and the Energizer Bunny® are registered trademarks of the Eveready Battery Company, Inc.

- Single-use Energizer® alkaline batteries for heavy drain and frequent use applications
- · Prepackaged: order in increments of 4

Part No.	Size	4	8	12
198707CH	AA\$	.64	\$.63	\$.62
198715CH	AAA	.49	.47	.44
Part No.	Size		1	4
	Size 9-volt		\$1.89	

## Over 99% of Our **Products Are In Stock**

Place your order by 6PM EST for same business day shipment.



## **Rechargeable Battery Packs**

Jameco offers an extensive line of battery packs available in economical NiCd and powerful NiMH compositions.



See page 186 for details.





## SALE

Fig. 3

#### **NiCd and NiMH Batteries**



Fig. 1



















Fig. 11 Fig. 12

Fig. 13





Fig. 16 Fig. 17

Fig. 14





Fig. 20



Fig. 22

NiMH & NiCd Battery Charger

Fig. 19



Fig. 23

#### NiCd - Rechargeable (Continued)

Part Number	Mfr. Cross Ref.	Figure	Size	Volts	mAh	Terminals/Connection	Dimensions	1	10	25
244961CH	C-2500HT	1	С	1.2	2500	Flat top, high temperature	1.90"L x 1.00"Dia.	\$5.2 <sup>5</sup> \$4.75	\$4.28	\$3.85
244689CH	C-2500	1	С	1.2	2500	Flat top	1.90"L x 1.00"Dia.	\$5: <sup>15</sup> 4.65	4.19	3.35
244347CH	1/2D-2200	2	1/2 D	1.2	2200	Flat top	1.40"L x 1.30"Dia.	\$4.2 <sup>9</sup> 3.89	3.50	3.15
244566CH	2/3D-2800	_	2/3 D	1.2	2800	Flat top	1.70"L x 1.30"Dia.	\$5.25 4.75	4.28	3.42
244697CH	D-5000	3	D	1.2	5000	Flat top	2.40"L x 1.30"Dia.	\$7.79 6.99	6.29	5.66
244558CH	D-5000-CT	4	D	1.2	5000	Consumer tip	2.40"L x 1.30"Dia.	7.79	7.60	7.45
244419CH	3/2D(F)-8000	5	F	1.2	8000	Flat top	3.45"L x 1.30"Dia.	\$2 <sup>0.55</sup> 18.49	16.64	13.31
126720CH	351FT	6	_	3.6	60	2-lead (pin), barrel	0.72"L x 1.28"Dia.	4.49	4.05	3.65
119116CH	3/V60R	7	_	3.6	60	3-lead (pin), barrel	0.74"L x 0.61"Dia.	3.75	3.39	3.05
101653CH	NA101-1	8		3.6	60	2-lead (eyelet), barrel	0.72"L x 0.61"Dia.	5.49	4.95	3.95

#### NiMH - Pechargeable

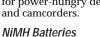
74114111 14	echargeable	-								
Part Number	Mfr. Cross Ref.	Figure	Size	Volts	mAh	Terminals/Connection	Dimensions	1	10	25
244937CH	PRIZ-F6(48)-700	_	_	1.2	700	Flat top-prizmatic	1.86"L x 0.65"W x 0.23"T	\$3.15 \$2.85	\$2.56	\$2.31
244945CH	PRIZ-7/5F6-1100	9	_	1.2	1100	Flat top-prizmatic	2.63"L x 0.65"W x 0.23"T	\$4.15 3.75	3.38	3.04
244582CH	2/3AAA-300	10	2/3 AAA	1.2	300	Flat top	1.11"L x 0.40"Dia.	1.34	1.21	1.09
244785CH	5/4AAA-750	11	5/4 AAA	1.2	750	Flat top	2.00"L x 0.40"Dia.	2.29	2.06	1.65
261665CH	AAA-700FT	12	AAA	1.2	700	Flat top	1.70"L x 0.40"Dia.	2.25	1.99	1.91
244806CH	4/5AA-1200	13	4/5 AA	1.2	1200	Flat top	1.70"L x 0.55"Dia.	\$3.2 <sup>5</sup> 2.95	2.66	2.12
244814CH	AA-1800	14	AA	1.2	1800	Flat top	1.90"L x 0.55"Dia.	2.35	2.12	1.99
244822CH	AA-1800-CT	15	AA	1.2	1800	Consumer tip	1.90"L x 0.55"Dia.	2.35	2.12	1.99
244831CH	4/3AA-1900	16	4/3 AA	1.2	1900	Flat top	2.60"L x 0.55"Dia.	\$6.89 6.19	5.57	4.46
244857CH	2/3A-1100	17	2/3 A	1.2	1100	Flat top	1.10"L x 0.65"Dia.	\$3.5 <sup>9</sup> 3.25	2.92	2.63
244864CH	4/5A-1800	18	4/5 A	1.2	1800	Flat top	1.70"L x 0.65"Dia.	\$3. <sup>15</sup> 2.85	2.56	2.36
244970CH	A-2200	19	Α	1.2	2200	Flat top	1.90"L x 0.65"Dia.	\$3.69 3.35	3.02	2.78
244873CH	4/3A-2500	20	4/3 A	1.2	2500	Flat top	2.60"L x 0.65"Dia.	\$5.2 <sup>9</sup> 4.79	4.31	4.17
244890CH	SC-2900-HD	21	Sub-C	1.2	2900	Flat top, high discharge	1.70"L x 0.90"Dia.	6.49	6.04	5.89
244902CH	D-9000	22	D	1.2	9000	Flat top	2.40"L x 1.30"Dia.	\$2 <sup>4.45</sup> 19.29	17.36	13.89
244911CH	D-9000-CT	22	D	1.2	9000	Consumer tip	2.40"L x 1.30"Dia.	21.45	17.54	16.08
244620CH	9V-200	23	9V	9	200	Snaps	1.94"L x 0.65"Dia.	7.79	6.92	6.22

### Long-Lasting Rechargeable NiMH Batteries **SALE**

Why buy & throw away hundreds of batteries? Now you can reuse longer-lasting, money saving NiMH rechargeable batteries instead! They feature twice the power of NiCd batteries, so they're ideal for power-hungry devices like digital cameras

2x AAA, 600mAh .....

Description



Part No.

231095CH

231087CH

231116CH

231124CH

231108CH





10

\$6.25

12.55

11.24

16.19

7.95



25

\$5.65

11.29

10.12

12.95

7.59



100

\$5.05

10.19

9.11

10.96

indicates charging and green LED indicates ready to use. · Charging bay allows 4AA or

4AAA batteries to be charged at the same time (only AA NiCd)

Charge your AA or AAA NiMH

and AA NiCd batteries with this

plug into a wall outlet. Red LED

8-hour battery charger. Simply

Size: 2.8" x 2.4" x 4.6"

· Weight: 1.0 lb.

Part No.

217533

	Description	1	10
СН	Plug-in charger 💿	\$3.09	\$2.79
art	No Limited Quantity Available		



## 30-Day Money-Back **Guarantee**

1x "9V", 150mAh ...... 8.39

If you're not completely satisfied with your purchase, simply return the product within 30 days for a refund or exchange.

Details on page 258.

Pricing

#### JAMECO ReliaPro

### Rechargeable Battery Packs

• AA single cell: 1.92"L x 0.56"Dia. (48.8mm x 14.2mm)

• SC single cell: 1.65"L x 0.86"Dia. (41.9mm x 21.8mm)

• D single cell: 2.36"L x 1.26"Dia. (59.9mm x 32.0mm)

				Solder Tabs				Lead Wires				
	Cell			Jameco		Pricing		Jameco	Pricing			
2.4 Volts	Size	Туре	mAh	Part No.	1	10	25	Part No.	1	10	25	
	AA	NiCAD	700	298097CH	\$4.35	\$4.26	\$4.14	298935CH	\$5.35	\$5.22	\$5.09	
	AA	NiCAD	1000	298337CH	5.35	4.87	4.33	299081CH	6.55	6.32	6.05	
	AA	NiMH	1800	298484CH	9.39	8.54	7.59	299233CH	11.29	10.77	10.28	
90	SC	NiCAD	2200	298636CH	10.35	9.82	9.33	299381CH	11.29	10.77	10.28	
	D	NiCAd	5000	298783CH	24.75	22.25	19.78	299532CH	24.75	22.25	19.78	
	AA	NiCAD	700	298214CH	\$4.35	\$3.95	\$3.52	298960CH	\$5.29	\$5.22	\$5.09	
	AA	NiCAD	1000	298361CH	5.39	4.90	4.35	299111CH	6.55	6.34	6.07	
	AA	NiMH	1800	298513CH	9.49	8.55	7.59	299268CH	11.29	10.77	10.28	
	SC	NiCAD	2200	298661CH	10.35	9.82	9.33	299410CH	11.29	10.77	10.28	
	D	NiCAD	5000	298812CH	24.69	22.24	19.77	299567CH	24.69	22.24	19.77	

299250CH 4.8V/ AA/ 1800mAh 298206CH 4.8V/ AA/ 700mAh	51	•	6V/ AA/ 1000mAh
<b>298687CH</b> 4.8V/ SC/ 2200mAh <b>299137CH</b>		T	
4.8V/ AA/ 1000mAh			<b>298628CH</b> 6V/ AA/ 1800mAh
9.6V/ AA/ 1800mAh			299612CH 9.6V/ D/ 5000mAh

				Solder Ta	bs			Lead Wires				
	Cell			Jameco		Pricing		Jameco	ı	Pricing		
3.6 Volts	Size	Type	mAh	Part No.	1	10	25	Part No.	1	10	25	
	AA	NiCAD	700	298193CH	\$6.19	\$5.92	\$5.49	298943CH	\$7.15	\$6.87	\$6.57	
	AA	NiCAD	1000	298345CH	8.05	7.31	6.50	299090CH	9.35	8.61	7.84	
	AA	NiMH	1800	298492CH	11.89	11.30	10.47	299241CH	12.85	11.78	10.48	
90	SC	NiCAD	2200	298644CH	12.25	11.00	9.90	299399CH	13.19	11.95	10.85	
Ů,	D	NiCAD	5000	298791CH	35.25	31.70	28.53	299541CH	36.19	32.65	29.48	
	AA	NiCAD	700	298222CH	\$6.19	\$5.92	\$5.26	298978CH	\$8.75	\$8.07	\$7.35	
	AA	NiCAD	1000	298370CH	8.09	7.34	6.53	299129CH	9.35	8.57	7.81	
	AA	NiMH	1800	298521CH	10.35	9.82	9.33	299276CH	12.85	12.25	11.69	
	SC	NiCAD	2200	298679CH	12.25	11.02	9.92	299428CH	13.19	11.97	10.87	
	D	NiCAD	5000	298821CH	35.25	31.70	28.53	299575CH	36.19	32.65	29.48	
	AA	NiCAD	700	298302CH	\$6.49	\$5.90	\$5.24	299057CH	\$6.49	\$5.90	\$5.24	
	AA	NiCAD	1000	298450CH	8.05	7.32	6.50	299209CH	8.05	7.31	6.50	
	AA	NiMH	1800	298601CH	13.09	11.78	10.48	299356CH	15.99	14.48	13.13	
X	SC	NiCAD	2200	298759CH	15.09	13.53	12.18	299508CH	16.05	14.48	13.13	
	D	NiCAD	5000	298901CH	41.49	37.34	33.61	299655CH	37.09	33.37	29.66	

					DS			Lead Wires			
Cell				lameco		Pricing		Jameco		Pricing	
6.0 Volts	Size	Туре	mAh		1	10	25		1	10	25
	AA	NiCAD	700	298329CH	\$9.25	\$8.00	\$7.60	299073CH	\$10.29	\$8.95	\$8.55
	AA	NiCAD	1000	298476CH	11.25	10.13	9.11	299225CH	13.25	11.08	10.06
$\langle \langle \langle \rangle \rangle$	AA	NiMH	1800	298628CH	18.85	16.07	15.27	299372CH	19.75	17.02	16.22
J.Y.	SC	NiCAD	2200	298775CH	18.79	15.99	14.39	299524CH	19.75	16.94	15.34
90	D	NiCAD	5000	298927CH	52.85	44.92	42.67	299680CH	53.79	45.87	43.57
	6.0 Volts	AA AA SC	AA NICAD AA NICAD AA NICAD AA NICAD AA NICAD NICAD NICAD	AA NICAD 700 AA NICAD 1000 AA NICAD 1000 AA NICAD 1000 AN NIMH 1800 SC NICAD 2200	AA NICAD 700 298329CH AA NICAD 1000 298476CH AA NIMH 1800 298628CH	AA NICAD 700 298329CH 12.25 AA NICAD 1000 298476CH 11.25 SC NICAD 2200 298775CH 18.79	AA         NICAD         700         298329CH         \$9.25         \$8.00           AA         NICAD         1000         298476CH         11.25         10.13           AA         NICAD         1000         298628CH         18.85         16.07           SC         NICAD         2200         298775CH         18.79         15.99	6.0 Volts   Size   Type   mAh   Part No.   1   10   25   25   27.00   298329CH   \$9.25   \$8.00   \$7.60   AA   NICAD   1000   298476CH   11.25   10.13   9.11   AA   NIMH   1800   298628CH   18.85   16.07   15.27   SC   NICAD   2200   298775CH   18.79   15.99   14.39   15.99   14.39   15.99   14.39   15.99   14.39   14.39   15.99   14.39   15.99   14.39   14.39   15.99   14.39   14.39   14.39   15.99   14.39   14	AA NICAD 1000 298476CH 11.25 10.13 9.11 299225CH AA NICAD 2000 298775CH 18.79 15.99 14.39 299524CH	AA NICAD 1000 298476CH 11.25 10.13 9.11 299225CH 13.25 SC NICAD 2200 298775CH 18.79 15.99 14.39 299524CH 19.75	AA NICAD 1000 298476CH 11.25 10.13 9.11 299225CH 13.25 11.08 SC NICAD 2200 298775CH 18.79 15.99 14.39 299524CH 19.75 16.94

Cell

	AA	INICAD	1000	2903/UUT	0.09	7.34	0.33	29912900	9.33	0.37	7.01			AA	11
	AA	NiMH	1800	298521CH	10.35	9.82	9.33	299276CH	12.85	12.25	11.69			AA	N
	SC	NiCAD	2200	298679CH	12.25	11.02	9.92	299428CH	13.19	11.97	10.87	DK	$\langle / \rangle$	AA	Ν
	D	NiCAD	5000	298821CH	35.25	31.70	28.53	299575CH	36.19	32.65	29.48	4		SC	N
														D	I
_	AA	NiCAD	700	298302CH	\$6.49	\$5.90	\$5.24	299057CH	\$6.49	\$5.90	\$5.24			I D	Ľ
	AA	NiCAD	1000	298450CH	8.05	7.32	6.50	299209CH	8.05	7.31	6.50			AA	N
	AA	NiMH	1800	298601CH	13.09	11.78	10.48	299356CH	15.99	14.48	13.13			AA	N
	SC	NiCAD	2200	298759CH	15.09	13.53	12.18	299508CH	16.05	14.48	13.13			AA	N
<u> </u>	D	NiCAD	5000	298901CH	41.49	37.34	33.61	299655CH	37.09	33.37	29.66	V		SC	Ν
													<i>V</i>	D	Ν

7.2 V	,,,,	3120	Type	IIIAII	raitivo.		10	23	raitivo.		10	23
		AA	NiCAD	700	298257CH	\$11.75	\$10.58	\$9.53	299006CH	\$12.75	\$11.53	\$10.59
	7	AA	NiCAD	1000	298409CH	15.99	14.40	12.96	299153CH	16.95	15.35	13.91
DK/		AA	NiMH	1800	298556CH	20.29	18.25	16.43	299305CH	21.25	19.20	17.38
990	//	SC	NiCAD	2200	298708CH	23.15	20.81	18.73	299452CH	24.09	21.76	19.68
9		D	NiCAD	5000	298855CH	66.49	59.83	59.09	299604CH	67.45	60.78	59.09
		AA	NiCAD	700	298281CH	\$11.79	\$10.59	\$9.54	299031CH	\$12.75	\$11.54	\$10.49
	2	AA	NiCAD	1000	298433CH	16.05	14.41	12.97	299188CH	16.95	15.36	13.92
		AA	NiMH	1800	298581CH	20.29	18.25	16.43	299330CH	21.25	19.20	17.38
4		SC	NiCAD	2200	298732CH	23.15	20.82	18.74	299487CH	24.09	21.77	19.69
		D	NiCAD	5000	298880CH	66.49	59.83	59.29	299639CH	67.45	60.78	59.29

Pricing

10

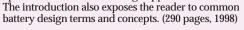
25 Part No.

				Solder Ta	bs			Lead Wire	s _		
	Cell			Jameco		Pricing		Jameco		Pricing	
4.8 Volts	Size	Туре	mAh	Part No.	1	10	25	Part No.	1	10	25
	AA	NiCAD	700	298206CH	\$7.79	\$7.08	\$6.37	298951CH	\$8.75	\$8.03	\$7.32
	AA	NiCAD	1000	298353CH	10.69	9.62	8.66	299102CH	11.65	10.57	9.61
	AA	NiMH	1800	298505CH	15.09	14.33	13.35	299250CH	16.05	15.28	14.56
900	SC	NiCAD	2200	298652CH	15.45	13.90	12.51	299401CH	16.39	14.85	13.46
	D	NiCAD	5000	298804CH	44.49	40.05	36.04	299559CH	45.45	41.00	36.99
	AA	NiCAD	700	298249CH	\$7.79	\$7.06	\$6.36	298994CH	\$8.69	\$8.01	\$7.31
	AA	NiCAD	1000	298396CH	10.69	9.60	8.65	299145CH	11.65	10.55	9.60
	AA	NiMH	1800	298548CH	15.09	14.32	13.30	299292CH	16.05	15.28	14.56
	SC	NiCAD	2200	298695CH	15.45	13.64	12.51	299444CH	16.39	14.85	13.46
	D	NiCAD	5000	298847CH	44.35	39.89	35.90	299591CH	45.29	40.84	36.85
	AA	NiCAD	700	298231CH	\$7.85	\$7.12	\$6.40	298986CH	\$8.75	\$8.07	\$7.35
	AA	NiCAD	1000	298388CH	10.69	9.62	8.66	299137CH	11.65	10.57	9.61
	AA	NiMH	1800	298530CH	11.89	11.30	10.74	299284CH	16.05	15.28	14.56
	SC	NiCAD	2200	298687CH	15.45	13.91	12.52	299436CH	16.39	14.86	13.47
	D	NiCAD	5000	298839CH	44.49	40.02	36.02	299583CH	45.45	40.97	36.97
	AA	NiCAD	700	298273CH	\$7.79	\$7.08	\$6.37	299022CH	\$8.75	\$8.03	\$7.32
	AA	NiCAD	1000	298425CH	10.69	9.62	8.66	299170CH	11.65	10.57	9.61
	AA	NiMH	1800	298572CH	15.09	14.32	13.34	299321CH	16.05	15.28	14.56
	SC	NiCAD	2200	298724CH	15.45	13.90	12.51	299479CH	16.39	14.85	13.46
	D	NiCAD	5000	298871CH	44.49	40.03	36.03	299621CH	45.45	40.98	36.98
	AA	NiCAD	700	298311CH	\$8.35	\$7.57	\$6.81	299065CH	\$8.65	\$7.85	\$6.97
	AA	NiCAD		298468CH	10.79	9.73	8.65		12.19	11.08	
	AA	NiMH	1800	298610CH	16.95	15.23	13.71		16.65	14.97	
00	SC	NiCAD		298767CH	16.95	15.23	13.71		17.89	16.18	
	D	NiCAD		298919CH	47.19	42.46		299663CH	48.15	43.41	

				Solder Tabs				Lead Wire			
	Cell			Jameco		Pricing		Jameco		Pricing	
9.6 Volts	Size	Туре	mAh	Part No.	1	10	25		1	10	25
	AA	NiCAD	700	298265CH	\$15.69	\$14.12	\$12.70	299014CH	\$16.65	\$15.07	\$13.65
	AA	NiCAD	1000	298417CH	21.35	19.20	17.27	299161CH	22.29	20.15	18.23
80	AA	NiMH	1800	298564CH	26.35	23.70	21.34	299313CH	27.29	24.65	22.29
200	SC	NiCAD	2200	298716CH	30.85	27.75	24.98	299461CH	31.79	28.70	25.93
90	D	NiCAD	5000	298863CH	88.65	79.76	78.78	299612CH	89.59	80.71	78.78
	AA	NiCAD	700	298290CH	\$12.25	\$11.02	\$9.92	299049CH	\$12.25	\$11.02	\$9.92
	AA	NiCAD	1000	298441CH	15.19	13.66	12.29	299196CH	16.15	14.61	13.24
	AA	NiMH	1800	298599CH	23.65	21.27	19.14	299348CH	24.59	22.22	20.09
Ch The	SC	NiCAD	2200	298741CH	24.49	22.03	19.83	299495CH	25.45	22.98	20.78
<u> </u>	D	NiCAD	5000	298898CH	63.35	57.01	54.16	299647CH	64.29	57.96	55.06

### Rechargeable Batteries **Application Handbook**

Butterworth-Heinemann This handbook represents the first widely-available compendium of information needed by those design professionals responsible for using rechargeable batteries. It introduces the most common forms of rechargeable batteries, including their history, the basic chemistry that governs their operation, and common design approaches.



Part No.	Description	Price
305171CH	Rechargeable batteries handbook	\$43.95



JAMECO ReliaPro

Save 10% or more on most batteries!

## Battery Holders and Accessories

**Quantity SAVE** 

Fig. 1

EXCLUSIVE

Fig. 3

Fig. 2

#### **Battery Holders**

Eliminate battery mounting problems in portable DC power applications and products. These holders are made from special materials that maintain retention properties longer than conventional holders. They can come with leads, or attached to battery holders.

Part No.	Mfr. Cross Ref.	Fig.	No. of Cells	Connector	Sides	Features	1	10	100	500
216071CH	BH-311-2A	1	1-AA	Wires	Single		\$.69	\$.62	\$.56	\$.46
216080CH	BH-321-2A	3	2-AA	Wires	Single		.69	.62	.56	.50
216098CH	BH-321-4A	3	2-AA	Wires	Single	With mounting tabs	.59	.53	.42	.32
216101CH	SBH-321-2A	5	2-AA	Wires	Single	With cover, no switch	.59	.53	.42	.32
216119CH	SBH-321-1AS	5	2-AA	Wires	Single	With cover and switch	.79	.71	.64	.54
216127CH	BH-322-1B	4	2-AA	Snaps	Dual		.59	.53	.42	.32
216135CH	BH-331-A	6	3-AA	Snaps	Single		.89	.79	.72	.65
216143CH	SBH-331-AS	7	3-AA	Wires	Single	With cover and switch	.99	.79	.71	.53
216151CH	BH-341-2A	8	4-AA	Wires	Single		.99	.89	.84	.79
105857CH	*	12	4-AA	Wires	Single	Wires with connector	.89	.80	.72	.60
216160CH	BH-342-A	9	4-AA	Wires	Dual		\$.5 <sup>9</sup> .35	.28	.25	.23
216178CH	BH-343-1A	10	4-AA	Wires	Dual		.65	.55	.47	.35
216186CH	SBH-341-1AS	13	4-AA	Wires	Single	With cover and switch	1.09	.89	.85	.75
216194CH	BH-341-2B	8	4-AA	Snaps	Single		\$.65 .35	.31	.29	.26
216207CH	BH-343-1B	10	4-AA	Snaps	Dual		\$.89 .45	.38	.35	.32
216215CH	BH-363-A	15	6-AA	Wires	Dual		\$.85 .75	.68	.61	.55
216223CH	BH-364-A	14	6-AA	Wires	Single		.95	.85	.69	.51
216231CH	BH-363-B	15	6-AA	Snaps	Dual		.99	.75	.69	.65
216240CH	BH-383-A	17	8-AA	Wires	Dual		1.09	.98	.78	.59
216258CH	BH-382-B	16	8-AA	Snaps	Dual		1.19	1.07	.86	.64
216266CH	BH-383-B	17	8-AA	Snaps	Dual		1.19	.99	.86	.64
216274CH	BH-411-1A	1	1-AAA	Wires	Single		\$.39 .29	.18	.16	.15
216282CH	BH-421-1A	3	2-AAA	Wires	Single		.69	.59	.54	.49
216291CH	SBH-421-AS	5	2-AAA	Wires	Single	With cover and switch	\$.6 <sup>9</sup> .33	.30	.27	.25
216303CH	BH-431-1A	6	3-AAA	Wires	Single		\$.79 .39	.35	.32	.29
216311CH	SBH-431-1AS	7	3-AAA	Wires	Single	With cover and switch	.79	.69	.59	.49
216320CH	BH-441-1A	8	4-AAA	Wires	Single		.89	.80	.64	.48
216338CH	SBH-441-AS	13	4-AAA	Wires	Single	With cover and switch	1.25	1.12	.90	(.68)
216346CH	BH-211-A	1	1-C	Wires	Single		.55	.50	.40	.30
216354CH	BH-221-A	3	2-C	Wires	Single		1.09	.98	.78	.59
216362CH	BH-242-1A	11	4-C	Wires	Single		1.39	1.29	1.09	.99
216371CH	BH-111-1A	1	1-D	Wires	Single		.69	.62	.50	.37
216389CH	BH-121-1A	3	2-D	Wires	Single		.89	.80	.72	.60
216397CH	BH-121-1B	3	2-D	Snaps	Single		\$.64 .49	.46	.42	.38
216400CH	BH-142-A	11	4-D	Wires	Single		1.19	1.07	.96	.80
216418CH	BH-143-1A	8	4-D	Wires	Single		1.15	.89	.81	.74
216426CH	BH-9V-A	2	1-9V	Wires	Single		.79	.69	.64	.59
216434CH	BH-511-1A	1	1-N	Wires	Single		.59	.53	.42	.32
38535CH	2S2032	18	1-CR2032	PC Mount	Coin Cel		.59	.53	.44	.31
38543CH	2S2325	18	1-CR2354	PC Mount	Coin Cel	1	.99	.89	.71	.53
			or 2-CR2325							
		Ot	her Manu	ıfacture	rs — L	Limited Great De	eals			
237315CH	1029	19	1-2/3AA	PC Mour	nt Sing	ile	\$.75	\$.69	\$.59	\$.55
22400401	102	10	1 (02022	DC Mour	,	Coll	OF	0.4	40	E1



#### **Compact Battery Tester**

Simply lift the swivel arm of this battery tester and place your battery between the contacts and it will provide you a voltage measurement of your batteries. Tests AAA,

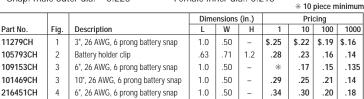
AA, C, D, 9V, and button cell batteries.

Description \$4.9<sup>9</sup>\$4.49 \$3.99 239556CH Compact battery tester

### "9-Volt" Battery Snaps and Clip

- · Use with standard "9 volt" batteries
- Fully insulated; contacts are nickel-plated brass
- · Leads are color-coded, stripped and pre-tinned
- Snap: male outer dia. = 0.225" • Female inner dia.: 0.215"

			Dimensions (in.)			Pricing			
Part No.	Fig.	Description	L	W	Н	1	10	100	1000
11279CH	1	3", 26 AWG, 6 prong battery snap	1.0	.50	-	\$.25	\$.22	\$.19	\$.16
105793CH	2	Battery holder clip	.63	.71	1.2	.28	.23	.16	.14
109153CH	3	6", 26 AWG, 6 prong battery snap	1.0	.50	-	*	.17	.15	.135
101469CH	3	10", 26 AWG, 6 prong battery snap	1.0	.50	-	.29	.25	.21	.14
216451CH	4	6", 26 AWG, 6 prong battery snap	1.0	.50	-	.34	.30	.20	.18





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Place your order by 6PM EST for same business day shipment.

<sup>\*</sup> Battery holder used in many personal computers

#### **Serial LCD Displays**

#### Scott Edwards Electronics, Inc.

For detailed specification sheets, please visit <u>www.Jameco.com</u>

· One year warranty

#### Scott Edwards ILM-216L

• 16 x 2 characters • 2.8" x 1.0" display



Matrix Orbital LK162-12

• 16 x 2 characters • 2.5" x 0.7" display



133129CH

#### Matrix Orbital VK202-25

• 20 x 2 characters w/ keypad interface

• 2.8" x 0.5" display



281359CH

#### Matrix Orbital LCD2041

20 x 4 characters
 3.0" x 1.0" display



Matrix Orbital LK204-25

- 20 x 4 characters w/ keypad interface
- 3.0" x 1.0" display

174166CH

157323CH



281375CH

#### Matrix Orbital GLK12232-25-SM

• 16 x 2 characters • 2.8" x 1.0" display

- 20 x 4 characters with graphics
- · 2.4" x 0.7" display

Matrix Orbital VK204-25

Scott Edwards BPI-216N



20 x 4 characters
 2.8" x 0.8" display

#### Matrix Orbital GLK12232-25-WBL 20 x 4 characters with graphics

• 3.3" x 1.4" display



281404CH

#### Scott Edwards BPP-440L

40 x 4 characters
 6.7" x 1.7" display



150990CH

150957CH

303554CH



Matrix Orbital VFD2041

20 x 4 characters
 3.0" x 1.0" display



Scott Edwards SGX-120L

- 20 x 4 characters with graphics
- 2.6" x 1.1" display



158166CH

- Matrix Orbital GLK24064-25 • 40 x 8 characters with graphics
- 5.0" x 1.3" display



#### Matrix Orbital GLC24064

- 40 x 8 characters with graphics
- 5.2" x 1.5" display



281412CH

## We're Listening to What You Need

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			i	į				Module Size	Display Size		Pricing	
Part No.	Manufacturer	Product No.	Characters x Lines	Serial Input (bps)	Input Voltage	Backlight	Notes*	(W"xH"xD")	(W"xH")	1	10	25
150990CH	Scott Edwards	ILM-216L	16 x 2	1200 - 9600	4.8V-5.5V@ 5mA	Y	1,2,5	3.2x2.0x0.5	2.8 x 1.0	\$48.95	\$44.09	\$39.65
174166CH	Matrix Orbital	LK162-12	16 x 2	1200 - 19,200	5.0V@9mA	Y	1,3,4,6	3.2x1.5x0.8	2.5 x 0.7	51.99	49.99	47.99
133129CH	Scott Edwards	BPI-216N	16 x 2	2400 or 9600	4.8V - 5.5V @ 3mA	N	1, 2,11	3.1x1.4x0.7	2.8 x 1.0	59.95	53.99	48.99
281359CH	Matrix Orbital	VK202-25	20 x 2 w/ keypad interface	1200 - 19,200	5.0V@130mA	Υ	1,7,10	4.6x1.5x0.9	2.8 x 0.5	88.99	87.97	84.47
150957CH	Matrix Orbital	LCD2041	20 x 4	1200 - 19,200	5.0V@10mA	Υ	1,3,4,6	3.9x2.4x0.7	3.0 x 1.0	57.99	55.99	54.99
157323CH	Matrix Orbital	LK204-25	20 x 4 w/ keypad interface	1200 - 19,200	5.0V@16mA	Y	1,3,4,6	3.7x2.4x1.1	3.0 x 1.0	77.99	75.99	73.99
281391CH	Matrix Orbital	GLK12232-25-SM	20 x 4 w/ graphics	9600 - 115,000	5.0V@250mA	Y	1,8	3.4x1.4x 0.5	2.4 x 0.7	68.99	67.99	65.49
281404CH	Matrix Orbital	GLK12232-25-WBL	20 x 4 w/ graphics	9600 - 115,000	5.0V@20mA	Y	1,8	3.9x2.4x0.4	3.3 x 1.4	74.99	73.99	71.19
303554CH	Matrix Orbital	VFD2041	20 x 4	1200 - 19,200	5.0V@20mA	Y	1,4,10	3.9x2.4x1.1	3.0 x 1.0	105.99	102.99	99.99
158166CH	Scott Edwards	SGX-120L	20 x 4 w/ graphics	2400 or 9600	9V bat. or 5.0V@45mA	Υ	1,2,5	3.1x1.9x0.8	2.6 x 1.1	119.95	107.99	103.00
281375CH	Matrix Orbital	VK204-25	20 x 4	1200 - 19,200	5.0V@220mA	Υ	1,4,10	3.8x2.4x1.0	2.8 x 0.8	114.49	113.50	108.73
136485CH	Scott Edwards	BPP-440L	40 x 4	1200 - 9600	5.0V@10mA	Υ	1, 2,11	7.5x2.2x0.9	6.7 x 1.7	149.95	142.45	136.49
174182CH	Matrix Orbital	GLC24064	40 x 8 w/ graphics	1200 - 19,200	5.0V@31mA	Υ	1,3,6	7.1x2.6x0.7	5.2 x 1.5	165.99	161.69	157.49
281412CH	Matrix Orbital	GLK24064-25	40 x 8 w/ graphics	9600 - 115,000	5.0V@20mA	Υ	1,9	7.1x2.6x1.1	5.0 x 1.3	192.99	192.00	183.30

- \*1. For power supply, recommend P/N 164101CH, pg 174.
- Includes instruction codes for character generation, cursor control, printing, etc. (Examples for Stamps in PBASIC included.)
- Manual and software included
- 4. Connect 16 modules using the same two wire interface
- EEPROM stores text font, settings, and text screen
- Backlight control, bar graphs, large digits, multiple displays, software contrast control, auto line

#### wrapping, and auto scroll feature.

- 7. Connect 127 modules on the same 2-wire interface
- 122 x 32 pixel graphics display, text display using built-in or user supplied fonts, adjustable contrast, backlighting, and keypad interface
- 240 x 64 pixel graphic display, text display using built-in or user supplied fonts, adjustable contrast, backlighting, and keypad interface
- 10. Built-in font provision for up to 8-user defined characters, software controlled brightness, use up to a 25-key keypad with one 10-key buffer, 6 general purpose outputs, horizontal or vertical bar graphs LCD Serial Backpack® accepts RS232, CMOS or TTL signal.

## TRISYS

#### Serial LCD Interface Module

- For Parallel LCD Displays with Hitachi 44780 Chipset Supports 1 x 8 thru 4 x 20 LCD display formats
- Provides word wrap, control character processing for display blanking cursor blanking, up-down-left-right cursor controls
- Compatible with P/N 171715CH, pg 189

Part No.	Product No.	Size (L x W)	1	10	25
157981CH	1616B-05A-100 <b>☉</b>	1.5" x 1.0"	. \$19. <sup>19</sup> \$17.99	\$16.34	\$14.85



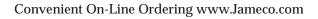
#### 0.5" High 4-Digit Field Effect LCD Display VL

- Compatible with socket P/N 78641CH (2), pg 110
- Pin spacing: 0.1" centers
- 40-pin package (no connector required)
- · Digital multimeters, thermometers, pressure gauges, timers, frequency counters, and clocks (12 or 24 hour format)

Part No.	Product No.	Size (W x H x D)	1	10	25
17110CH	402-DP-RC-S	2.0" x 1.2" x 0.1"	\$14.95	\$13.49	\$12.15

8.8:8.8





## Parallel LCD Displays and Panel Meters





### **Parallel LCD Displays**









• For detailed specification sheets, please visit www.Jameco.com

· 90-day Jameco warranty





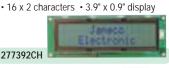
• 16 x 2 characters • 2.5" x 0.7" display



PicVue PVC160204A • 16 x 2 characters • 2.6" x 0.7" display



PicVue PVC160205



Optrex DCM16204N-LR-B • 16 x 2 characters • 3.9" x 0.9" display 320098CH

Optrex DM16433

• 2.4" x 1.0" display



Samsung 9936

20 x 1 characters
 6.5" x 1.3" display



171723CH

Ampire AC-202A



Optrex DM2026IANB-2Y-20 • 20 x 2 characters • 3.3" x 0.7" display



PicVue PVC200401

• 20 x 4 characters • 3.0" x 1.0" display



Solomon LM1200SGR

24 x 2 characters
 3.7" x 0.7" display



MEW

Solomon LM1030SGR 40 x 2 characters
 6.0" x 0.6" display



Ocular OM4021-WGS-01



Optrex 20-20191-2

• 40 x 2 characters • 5.8" x 0.5" display



**Emerging Display EW40420GLY** • 40 x 4 characters • 5.9" x 1.2" display

277253CH

320101CH



• 128 x 128 pixels

277333CH

2.7" x 2.7" display



NEW

PicVue PVG240602A

240 x 64 pixels
 5.2" x 1.5" display



277350CH

277325CH

215159CH	

									Module Size	Display Size		Pricing	
Part No.	Manufacturer	Product No.	Characters x Lines	Character Font	Input Data	Input Voltage	Backlight	Notes*	(W"xH"xD")	(W"xH")	1	10	25
171715CH	Ampire	AC-162A	16 x 2	5 x 8	8-bit	5.5V@1.5mA	Υ	3, 5	3.4x1.2x0.5	2.5 x 0.7	\$13.99	\$13.35	\$12.65
277384CH	PicVue	PVC160204A	16 x 2	5 x 7	8-bit	5VDC@1.6mA	Υ	_	3.3x1.4x0.5	2.6 x 0.7	13.99	11.99	9.99
277392CH	PicVue	PVC160205	16 x 2	5 x 8	4-bit or 8-bit	5.2V@1.2mA	Υ	_	4.8x1.7x0.5	3.9 x 0.9	19.95	18.95	17.99
320098CH	Optrex	DCM16204N-LR-B	16 x 2	5 x 8	4-bit or 8-bit	5.0V@3.0mA	Υ	5	3.2x1.6x0.6	2.4 x 0.6	14.55	13.09	11.39
210761CH	Optrex	DM16433	16 x 4	5 x 8	4-bit or 8-bit	6.5V@2.2mA	N	1, 5	3.4x2.4x0.3	2.4 x 1.0	22.95	19.95	18.69
206615CH	Samsung	9936	20 x 1	5 x 7	4-bit or 8-bit	5.5V@3.0mA	N	2	7.2x1.6x0.4	6.5 x 1.3	19.99	16.99	12.75
171723CH	Ampire	AC-202A	20 x 2	5 x 8	8-bit	5.0V@1.7mA	Υ	3, 5	4.6x1.5x0.4	3.3 x 0.7	24.95	22.49	20.25
320071CH	Optrex	DM2026IANB-2Y-20	20 x 2	5 x 8	4-bit or 8-bit	5.0V@3.0mA	Υ	5	4.6x1.5x0.6	3.3 x 0.7	19.89	17.89	15.59
277376CH	PicVue	PVC200401	20 x 4	5 x 8	8-bit	5.0V@1.6mA	N	_	3.9x2.4x0.4	3.0 x 1.0	23.29	20.19	16.85
320101CH	Solomon	LM1200SGR	24 x 2	5 x 7	8-bit	5.0V@3.0mA	N	5	4.6x1.4x0.4	3.7 x 0.7	15.59	13.35	11.99
320039CH	Solomon	LM1030SGR	40 x 2	5 x 7	8-bit	5.0V@3.0mA	N	5	7.2x1.2x0.3	6.0 x 0.6	22.15	19.25	18.29
277325CH	Ocular	OM4021-WGS-01	40 x 2	5 x 8	8-bit	5.0V@2.5mA	Y	5	7.2x1.3x0.6	6.0 x 0.6	24.95	21.25	15.95
215159CH	Optrex	20-20191-2	40 x 2	5 x 8	8-bit	5.5V@5mA	Υ	4	7.2x1.4x0.4	5.8 x 0.5	29.99	25.49	18.95
277253CH	Emerging Display	EW40420GLY	40 x 4	5 x 7	8-bit	4.0V@10mA	Υ	_	7.5x2.1x0.6	5.9 x 1.2	42.39	38.79	34.95
277333CH	PicVue	PG121202A	128 x 128 pixels	128 x 128	8-bit	5.0V@6.0mA	N	6	3.5x3.5x0.4	2.7 x 2.7	45.29	41.25	37.15

- \*1. Control LSI HD44780 or equivalent and column driver MSM5259 or equivalent; 2. Built-in controller HD44780;
- 3. Controller KS0066U or equivalent; 4. Column driver: KS0063B;
- 5. For power supply: recommend P/N 164101CH, pg 174); 6. Dot Graphic LCD display

PVG240602A

## 0.6" High 31/2- & 41/2-Digit LCD Digital Panel Meters

- Input Ranges: 200mV, 20V, 200V, 500V
- Accuracy: ±0.5%
   Size: 2.7"W x 1.7"H
- Input impedance: >100M $\Omega$ Automatic polarity indication
- Supply voltage: 8-12VDC (recommend 9V battery P/N 151095CH, pg 183)

146835CH: Backlit display Includes: Bezel



277350CH PicVue





240 x 64 pixels

	The said
	18888
-	San
	123140CH

108388	СН	175951CH	146835CH	1231	40CH
Part No.	Product No.	Digits	1	10	25
108388CH	PM-428	3½	\$12.95	\$11.95	\$10.95
175951CH	PM-128	3½	12.95	11.95	10.95
146835CH	PM-188BL	3½	19.95	17.99	16.19
123140CH	PM-328	41/2	27.95	24.95	22.49

#### vellemen

5.0V@6.0mA

## **Analog Panel Meters**

A ...... 8.79

7.1x2.6x0.4 5.2 x 1.5

· Includes mounting hardware

316507CH AIM6030A 0 - 30A

· 316507CH: includes current shunt

• Size: **A**: 2.4"W x 1.8"H x 1.3"D **B**: 2.8"W x 2.4"H x 1.4"D

7.49

Part No.	Product No.	Measurement Range	Size	1	4
316603CH	AVM6015	0 – 15VDC	Α	\$9.29	\$7.85
316671CH	AVM7015	0 – 15VDC	В		7.49
316638CH	AVM6030	0 - 30VDC	Α	8.79	7.49
316654CH	AVM7030	0 - 30VDC	В	8.79	7.49
316718CH	AVM60150	0 - 150VAC	Α	8.79	7.49
316785CH	AVM60300	0 - 300VAC	Α	8.79	7.49
315301CH	AIM60005	0 – 50uA	Α	9.29	7.85
316523CH	AIM6050	0 – 50mA	Α	8.79	7.49
316486CH	AIM60100	0 – 100mA	Α	8.99	7.65
316558CH	AIM60500	0 – 500mA	Α	8.99	7.65
316566CH	AIM60500	0 – 5A	Α	8.79	7.49
316582CH	AIM705000	0 – 5A	В	8.79	7.49
316494CH	AIM6010A	0 – 10A	Α	8.79	7.49



46.85

316603CH



316523CH

# apw

#### Mini-Max Wall Mount Enclosures\*

APW's Mini-Max Wall Mount Enclosures are the perfect storage solution for today's demanding, space-constrained applications. Convenient and flexible, these 19" EIA rack-mount enclosures allow you to manage and secure critical network wiring, hubs, concentrators, routers, patch panels, and audio/video equipment in a minimum amount of space. Offered in a variety of sizes with door and ventilation options, Mini-Max delivers the perfect combination of form and functionality for virtually any application.

- · Available in 3 heights (12U, 20U, and 26U), 1 width (21.50", 19" rack-mount) and 2 depths (14" and 20")
- Dual-tapped and field-reversible 10-32 and 12-24 mounting rails (1 pair per cabinet) Vented



Part	Product		Vertical	Overall	Usable	Overall		
Number	Number	Door Type	Panel Opening	Height	Depth	Depth	1	5
350196CH	WCF192114PLM	Plexiglas	21.00"	23.13"	14.00"	20.16"	\$457.59	\$434.75
350199CH	WCF192114SLM	Solid metal	21.00"	23.13"	14.00"	20.16"	. 408.59	388.15
350202CH	WCF192120PLM	Plexiglas	21.00"	23.13"	20.00"	26.16"	. 503.35	478.19
350205CH	WCF193520PLM	Plexiglas	35.00"	37.13"	20.00"	26.16"	. 624.49	593.25
350208CH	WCF194520PLM	Plexiglas	45.50"	48.13"	20.00"	26.16"	. 745.95	708.65



### Swing Out™ Wall Mount Rack for Mini-Max Wall Mount Enclosures\*

Convenient and flexible Swing Out™ racks come with a variety of standard features, including integrated strain relief and cable management; quick release hinges that allow the rack to swing open from either left or right; and exclusive 3" deep rack style rails tapped 12-24 on the front and rear for 19" EIA rack-mount equipment.

<ul> <li>Overall I</li> </ul>	height: 18.0"	<ul> <li>External width</li> </ul>	: 20.75"	<ul> <li>Color: black</li> </ul>	LN	LSVV )
Part No.	Product No.	Vertical Panel Opening	Rack Units	External Height	1	5
350223CH	S02118M	21.00"	12U	23.92"	\$136.05	\$129.25
350226CH	S03518M	35.00"	20U	37.92"	145.69	138.39
350229CH	S04318M	43.75"	25U	46.67"	153.15	145.49

#### **Cabinet Mounting Plate** for 19" Cabinet

- · Use as industrial chassis mounting plate for servers, PCs or patch panels
- Made of industrial grade steel and aluminum
- Size: 19.0"W x 15.8"D x 3.5"H
- · Color: beige

Part No.	Description	1	10
149500CH	Cabinet mount plate	\$39.95	\$35.95

## 19" Rack Mount Drawer with Keyboard and Trackball

- Occupies a single unit (IU) rack space
- PS/2 connector for keyboard and trackball
- Color: gray Weight: 18 lbs.
- Size:
- 19"W x 13"D x 2.8"H

Includes: Wrist pads, module, PS/2 to 5-pin DIN and PS/2 to 9-pin adapters, and software

Part No.	Description	1	10
220644CH	Rack mount KB drawer	\$249.99	\$234.99



#### **Universal Wall Mounting** Rail Kits for Mini-Max Wall Mount Enclosures\*

- · Comes in pairs
- Color: black

Part No.	Product No.	VPS	Rack Un	its 1	5
350214CH	WCRK21M	21.00"	12U	\$33.49	\$31.79
350217CH	WCRK35M	35.00"	20U	41.19	39.15
350220CH	WCRK45M	45.50"	26U	49.85	47.35



## Cantilevered Shelves\*

#### Front mount only

- 19" rack mountable
- 50 lb. capacity
- PS: 3.50
- · 2U rack unit
- · Color: black

Part No.	Product No	o. Type	Depth	1	5
350079CH	CS1912S	Solid	12.50"	\$38.95	\$36.99
350082CH	CS1914S	Solid	14.50"	. 44.65	42.39
350085CH	CS1919S	Solid	19.00"	. 52.25	49.65
350088CH	CS1912V	Vented	12.50"	. 49.39	46.95
350091CH	CS1914V	Vented	14.40"	. 56.05	53.25
350094CH	CS1919V	Vented	19.00"	. 59.85	56.59

\*To minimize shipping costs, all APW products ship direct from the manufacturer. Additionally, Jameco can offer the special shipping rate of 10% of total APW product sales for all APW products



For Additional Rack Mount Accessories see page 265.



#### 19" Rack Mount Enclosures

Perfect for equipment setup in home, studio or laboratory.

- · Ventilation holes on all sides
- · Front and back panels are steel w/ aluminum.
- pre-punched face plates Front panel: 0.12" thick
- · Black front panel
- Top, bottom, sides durable 0.035" steel
- All enclosures have handles except P/N 132812CH

**Includes:** Mounting screws

	Dimensions (In.) W		Weight	Pricing		
Part No.	H1	H2	D	(lbs.)	1	10
132812CH	1.73	1.25	9.75	6.2	\$39.95	\$35.99
132821CH	3.46	3.0	9.75	7.9	47.95	43.49
132839CH	3.46	2.88	11.75	9.1	53.95	48.59
132847CH	5.22	4.75	11.75	10.6	63.95	55.99
132855CH	5.22	4.75	13.50	11.8	73.95	66.95
132863CH	8.56	8.0	13.50	15.4	94.95	84.95

#### 19" Rack Mount CAT 5 Patch Panels

Our CAT 5 patch panels feature 110D punch blocks



with KRONÉ or 110D tool. UL and CUL listed and certified, CAT 5 certified and can be used with T568 A/B installations. Blocks are color coded for T568 color-coding, and easy wire management.

Part No.	Description	1	10
208768CH	12-port patch panel	\$28.99	\$27.55
208784CH	24-nort natch nanel	42 75	39 95

## Rack Mount Card Cage

- · For 19" rack mounts
- 24 slots
- · Weight: 6.3 lbs. · Fits card size:
- 6.5"L x 5.5"W
- Size: 6.5"L x 17.3"W x 6.1"D

Part No.	Description	1	10	25
172099CH	Rackmount card cage	\$7.95	\$7.15	\$5.55

## Relay Rack & Rack Panels

133751CH

133276CH

### Rack:

MEW

- · Black powder coat finish
- 10-32 threaded holes
- · Used with 19" wide panels
- 16 gauge CRS base
- 1/8" aluminum side rails · Size (at base):
- 19.8"W x 15.3"D x 84"H
- · Dimensional weight: 70 lbs. 19" Wide Panel:
- · 10-gauge black aluminum Rack screw:
- 10/32 screw: 5/8" phillips head (50 ea.)

Part No.	Description	Height	1	10
133751CH	Relay rack		\$159.95	\$144.95
133276CH	Rack panel (1U)	1.75"	\$ <sup>9.45</sup> 8.19	7.45
229489CH	Rack panel (2U)	3.50"	10.35	9.39
229500CH	Rack panel (4U)	7.00"	14.55	13.55
229446CH	Rack screw (50 e	a.) —	8.25	7.45





Add-on Unit

MEW

Monitor Not Included

## apw

# Wall Mount Patch Panel Brackets\*

When minimal space is required, APW's heavyduty 14 gauge steel wall mount patch panel brackets are a great alternative to full size racks. Designed for 19"



EIA equipment, the brackets' hinged design allows convenient wall mounting of patch panels and small equipment while saving valuable floor space. Select from a variety of sizes to best suit your needs.

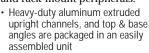
- Available in 4 heights (1U, 2U, 3U, 4U), 1 width (19.0"), and 4 depths (4", 6", 8", and 12")
- Universal inserts provide the option to use either 10-32 or 12-24 mounting screws

	External Ext./Overall						
Part No.	Product No.	Height	Depth	1	5		
350232CH	WPB190106M	1.75", 1U	6.0"	\$17.75	\$16.89		
350235CH	WPB190304M	3.50", 2U	4.0"	22.49	21.39		
350238CH	WPB190306M	3.50", 2U	6.0" .	22.99	21.85		
350241CH	WPB190308M	3.50", 2U	8.0" .	23.15	21.99		
350244CH	WPB190312M	3.50", 2U	12.0"	24.89	23.65		
350247CH	WPB190504M	5.25", 3U	4.0" .	24.69	23.45		
350250CH	WPB190506M	5.25", 3U	6.0" .	25.65	24.35		
350253CH	WPB190508M	5.25", 3U	8.0" .	25.89	24.59		
350256CH	WPB190512M	5.25", 3U	12.0"	27.79	26.39		
350259CH	WPB190704M	7.00", 4U	4.0" .	27.09	25.75		
350262CH	WPB190706M	7.00", 4U	6.0" .	28.05	26.65		
350265CH	WPB190708M	7.00", 4U	8.0" .	28.25	26.85		
350268CH	WPB190712M	7.00", 4U	12.0"	30.49	28.99		



#### Modular Networking Frames\*

APW's modular networking frames offer an economical solution to your rack-mount storage needs at a fraction of the cost of a fully enclosed cabinet. Designed with APW's renowned quality and stability, these racks are ideal for mounting electric test equipment, patch panels, Datacom and telecom equipment, and other cabling and rack-mount peripherals.



- 12-24 tapped 19" EIA mounting holes
- Overall width: 20.18"
- UL listed

· Offered in 47" and 84" heights only

**350190CH**: 24U • Overall height: 47.25" • Overall height: 84"

		Vertical	Rack		
Part No.	Product No.	Opening	Units	1	5
350190CH	MNFT1942DM	42.00"	24U <b>\$1</b>	27.75	\$121.35
350193CH	MNFT1978DM	78.75"	45U <b>1</b>	59.25	151.25

\*To minimize shipping costs, all APW products ship direct from the manufacturer. Additionally, Jameco can offer the special shipping rate of 10% of total APW product sales for all APW products.



#### Pioneer Quicksilver Rack Mount Enclosure Kits\*

Just plug it in and load it up! It's that easy with the Pioneer Quicksilver, the industry's first enclosure clustering solution. Quicksilver provides easy installation and reconfiguration of multiple 19" rack mount equipment as well as hubs, concentrators, switches, and other hardware, all within one enclosure. Available in 3 heights – 25U, 40U, and 45U. Use one simple easy-to-order item number to order your fully pre-configured enclosure system. All kits include base with leveler feet, top panel with exhaust fans and cable access (Lexan front door and vented rear door with handles and key locks), 2 pairs of 10-32 tapped 19" cable



management mounting rails (front rails include cable management rings), over head interior light, six outlet power strip, one fixed shelf, document storage pocket, and mounting hardware.

- · Load capacity up to 1,500 lbs. or 2,000 lbs. when ganged together
- Easy access from the front, rear, and sides Fully welded steel construction
- Compatible with all standard APW Pioneer options and accessories

#### Initial Unit

Part Number	Product Number	Vertical Panel Opening	Overall Height	Rack Units	Overall Depth	Side Panels	1	5
350049CH	PDC1904330KITM	43.75"	52.50"	25U	34.65"	Vented	\$1,876.19	\$1,782.39
350052CH	PDC1907030KITM	70.00"	78.75"	40U	34.65"	Vented	1,975.05	1,876.29
350055CH	PDC1907830KITM	78.75"	87.50"	45U	34.65"	Vented	2,064.29	1,961.09

#### Add-On Unit

Part	Product	Vertical Panel	Overall	Rack	Overall	Side		
Number	Number	Opening	Height	Units	Depth	Panels	1	5
350058CH	PDC1904330KITNSM	43.75"	52.50"	25U	34.65"	None s	\$1,568.45	\$1,490.05
350061CH	PDC1907030KITNSM	70.00"	78.75"	40U	34.65"	None	1,639.65	1,557.65
350064CH	PDC1907830KITNSM	78.75"	87.50"	45U	34/65"	None	1,695.69	1,610.89



#### Pioneer Pre-Configured Rack Mount Enclosures\*

NEW

APW's series of Pioneer Datacom Kits enables you to order pre-configured enclosures with one easy-to-order item number. Available in four different kit combinations to best suit your needs, each series offers an initial unit and a corresponding add-on unit for multi-bay configurations. Pioneer Datacom kits provide 42U of vertical 19" rackmount space and come in depths of 36" and 42". The kits include a base with leveler feet, top panels that include cable access, doors with handles and key locks, clip nuts, cage nuts, and mounting screws.

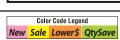
- Four different kits to meet your requirements all with two pairs of 0.375" square hole adjustable mounting rails
- 24" wide footprint
- · Fully welded steel construction
- · Load capacity of up to 1,500 lbs. or 2,000 lbs. when ganged together
- Multi-vendor server compatibility
- · Easy access to equipment from front, rear, and sides
- Compatible with all standard APW Pioneer options and accessories

#### **Initial Unit kits**

minual Om	t Kits						
Part No.	Product No.	Frame Size (D")	Top Panel	Front Door	Rear Door	Side Panels 1	5
350001CH	PK124MS7436	36	Perforated	Lexan	Perforated	Solid \$1,515.25	\$1,439.49
350004CH	PK124MS7442	42	Perforated	Lexan	Perforated	Solid 1,895.25	1,799.99
350007CH	PK224MS7436	36	Fan	Lexan	Perforated	Solid 1,799.99	1,710.25
350010CH	PK224MS7442	42	Fan	Lexan	Perforated	Solid 2,202.09	2,091.99
350013CH	PK324MS7436	36	Perforated	Perforated	Perforated	Solid 1,657.89	1,574.99
350016CH	PK242MS7442	42	Perforated	Perforated	Perforated	Solid 1,715.69	1,629.89
350019CH	PK424MS7436	36	Perforated	Perforated	Perforated	Perforated 1,693.99	1,609.29
350022CH	PK424MS7442	42	Perforated	Perforated	Perforated	Perforated 1.736.39	1,649.59

#### Add-On Units (no side panels)

Part No.	Product No.	Frame Size (D")	Top Panel	Front Door	Rear Door	Side Panels	1	5
350025CH	PA124MS7436	36	Perforated	Lexan	Perforated	None \$	1,189.99	\$1,149.59
350028CH	PA124MS7442	42	Perforated	Lexan	Perforated	None	1,526.15	1,449.85
350031CH	PA224MS7436	36	Fan	Lexan	Perforated	None	1,794.15	1,704.45
350034CH	PA224MS7442	42	Fan	Lexan	Perforated	None	1,832.09	1,740.49
350037CH	PA324MS7436	36	Perforated	Perforated	Perforated	None	1,308.65	1,243.19
350040CH	PA324MS7442	42	Perforated	Perforated	Perforated	None	1,346.15	1,278.85
350043CH	PA424MS7436	36	Perforated	Perforated	Perforated	None	1,308.65	1,243.19
350046CH	PA424MS7442	42	Perforated	Perforated	Perforated	None	1,346.15	1,278.85



## NEW

#### Processor-Based Motherboards<sup>†</sup>















		_
3451	311	1 1

345092CH

345156CH

285085CH

285114CH

205157011

Jameco			Board	Processor	FSB		On-Board		On-Board		HDD	On-Board	Wt.	Warranty	Pric	ing
Part No.	Mfr.	Model No.	Style	Support	(MHz)	Chipset	Graphics	Memory Type	Audio	USB	Support	LAN	(lbs.)	(Yrs.)	1	10
345050CH	Giga-Byte	GA-8S648FX-RZ♠	ATX	P4	800/533/400	661FX/963L	No	DDR400/333/266	Yes	2.0	ATA	100Mb	2.6	3	\$76.55	\$72.85
345130CH	Giga-Byte	GA-8IPE1000-G♠	ATX	P4	800/533/400	i865PE	No	DDR400/333/266	Yes	2.0	SATA	1000Mb	3.3	3	131.55	106.75
345164CH	Giga-Byte	GA-8IPE1000PRO-G♠	ATX		800/533/400	i865PE	No	DDR400/333/266	Yes	2.0	SATA	1000Mb	3.6	3	131.55	124.95
345560CH	Intel	BOXD915GAVL♠	ATX	P4	800/533	i915G	Yes	DDR333/400	Yes	2.0	SATA	100Mb	2.9	3	149.45	141.99
345578CH	Intel	BOXD915PBLL♠	ATX	P4	800/533	i915P	No	DDR2 533/400	Yes	2.0	SATA	100Mb	4.7	3	198.99	196.25
345586CH	Intel	BOXD915PCYL♠	ATX	P4	800/533	i915P	No	DDR2 533/400	Yes	2.0	SATA	100Mb	2.9	3	157.45	149.55
285131CH	Intel	S875WP1 <b></b>	ATX	P4	533	i875P	Yes	DDR400/333/266	No	2.0	SATA	100Mb	2.7	3	256.35	245.99
285093CH	Intel	BOXD865PERLL♠	ATX	P4/CEL	800/533/400	i865PE	No	DDR400/333/266	Yes	2.0	ATA	100Mb	3.1	3	142.39	128.15
285077CH	Intel	BOXD865GBFL♠	ATX	P4/CEL	800/533/400	i865G	Yes	DDR400/333/266	Yes	2.0	SATA	100Mb	2.8	3	131.05	123.49
345543CH	Intel	BOXD865PERLX♠	ATX	P4/Celeron	800/533/400	i865PE	No	DDR400-333/266	Yes	2.0	SATA	100Mb	2.6	3	118.85	112.89
285106CH	Intel	BOXD875PBZLK♠	ATX	P4/CEL	800/533	i875P	No	DDR400/333	No	2.0	SATA	1000Mb	2.9	3	205.89	185.29
345092CH	Giga-Byte	GA-7N400-L <b>♠</b>	ATX	Athlon XP*	400/333/266/200	nForce2 400	No	DDR400/333/266	Yes	2.0	ATA	100Mb	3.0	3	90.25	85.74
345121CH	Giga-Byte	GA-7VT600-1394 <b>◆</b>	ATX		400/333/266/200	KT600	No	PC3200/2700/2100	Yes	2.0	SATA	100Mb	2.8	3	103.69	98.49
345148CH	Giga-Byte	GA-8TRS350MT♠	μΑΤΧ		800/533/400	9100 Pro IGP	Yes	DDR400/333/266	Yes	2.0	SATA	100Mb	4.0	3	113.95	108.25
345156CH	Giga-Byte	GA-8IG1000MK-B♠	μΑΤΧ	P4	800/533/400	i865G	No	DDR400/333/266	Yes	2.0	SATA	100Mb	3.8	3	129.99	123.55
345172CH	Giga-Byte	GA-8I915G-MF♠	μΑΤΧ	P4	800/533/400	i915G/ICH6	Yes	DDR400/333	Yes	2.0	SATA	1000Mb	3.8	3	127.65	124.99
345551CH	Intel	BOXD915GAGL♠	μΑΤΧ	P4	800/533	i915G	Yes	DDR333/400	Yes	2.0	SATA	100Mb	2.7	3	141.85	136.59
345594CH	Intel	BOXD925XBCLK♠	μΑΤΧ	P4	800/533	i925X	No	DDR2 533/400	Yes	2.0	SATA	1000Mb	4.5	3	248.99	247.99
345033CH	Giga-Byte	GA-8I845GVM-RZ <b>♠</b>	μΑΤΧ	P4	533/400	i845GV	Yes	DDR333/2666/200	Yes	2.0	ATA	100Mb	1.8	3	76.35	72.49
285085CH	Intel	BOXD865GLCL♠	μΑΤΧ	P4/CEL	800/533	i865G	Yes	DDR400/333	Yes	2.0	SATA	100Mb	2.5	3	142.09	134.95
285114CH	Intel	BOXD845GVSRL♠	μΑΤΧ	P4/CEL	533/400	i845GV	Yes	DDR 333/266	Yes	2.0	ATA	100Mb	2.1	3	79.95	74.95
345535CH	Intel	BOXD845GVFNL♠	μΑΤΧ	P4/Celeron	533/400	i845GV	Yes	DDR333/266/200	Yes	2.0	ATA	100Mb	2.0	3	65.59	62.35
345041CH	Giga-Byte	GA-7VM400M-RZ♠	μΑΤΧ	Athlon XP*	333/266/200	KM400	Yes	DDR333/266/200	Yes	2.0	ATA	100Mb	2.3	3	76.79	72.95
285157CH		SE7505VB2 <b>♠</b>			533/400	iE7505	Yes	DDR200/266	No	2.0	SATA	100Mb	3.8	3	474.15	469.79

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

WINTEC

354757CH 35145588-PA♠

184 ..... **49.65** 

	INEW
DDR Memory	Modules

## **DIMM and SIMM Memory Modules**

Part No.	Mfr. Cross Ref. No	. Capacity	Description	Config.	Pins	1	10
354634CH	32464468-P <b>◆</b>	128M	SDR133	16X16	168	\$30.19	\$28.69
354642CH	32474468-P <b>◆</b>	256M	SDR133	16X16	168	53.19	50.55
354651CH	32484588-P <b>♠</b>	512M	SDR133	32X8	168	102.59	97.49
354669CH	35122468-P♠	128M	DDR PC2100	16X16	184	27.35	25.95
354677CH	35132588-P♠	256M	DDR PC2100	32X8	184	50.49	47.95
354685CH	35142588-P♠	512M	DDR PC2100	32X8	184	92.25	87.65
354693CH	35124468-PA♠	128M	DDR PC2700	16X16	184	36.09	34.29
354706CH	35134588-PB♠	256M	DDR PC2700	32X8	184	47.45	45.09
354714CH	35144588-PA♠	512M	DDR PC2700	32X8	184	97.65	92.75
354722CH	35154680♠	1G	DDR PC2700	64X8	184	233.99	222.45
354731CH	35125468-P♠	128M	DDR PC3200	16X16	184	37.09	35.25
354749CH	35135588-PB♠	256M	DDR PC3200	32X8	184	52.25	49.65

DDR PC3200

Legacy Memory Modules							
Part No.	Mfr. Cross Ref. No.	Capacity	Description				

148419CH	16MBX64SDRAM	128MB	10ns Syn. DRAM DIMM	16M x 64	168 <b>\$65.95</b>	\$59.95
148401CH	8MBX64SDRAM	64MB	10ns Syn. DRAM DIMM	8M x 64	168 <b>28.19</b>	26.95
148451CH	JEED07264	64MB	60ns SIMM EDO	16M x 32	72 <b>29.95</b>	28.45
148398CH	4MBX64SDRAM	32MB	10ns Syn. DRAM DIMM	4M x 64	168 <b>18.39</b>	16.59
148460CH	8MBX36-60	32MB	60ns SIMM	8M x 36	72 <b>39.95</b>	36.99
148443CH	JEED07232	32MB	60ns SIMM EDO	8M x 32	72 <b>43.95</b>	39.59
75184CH	P364000-XX-6	16MB	60ns SIMM	4M x 36	72 <b>21.95</b>	20.95
130711CH	JEED07216	16MB	60ns SIMM EDO	4M x 32	72 <b>12.75</b>	11.45
75096CH	P362000-XX-6	8MB	60ns SIMM	2M x 36	72 <b>21.55</b>	19.39
130729CH	JEED07208	8MB	60ns SIMM EDO	2M x 32	72 <b>9.95</b>	7.45
285667CH	HB56U232	8MB	70ns SIMM	2M x 36	72 <b>8.95</b>	6.95
75133CH	P361000-XX-6	4MB	60ns SIMM	1M x 36	72 <b>12.95</b>	11.65
41751CH	421000A9B-70	1MB	70ns SIMM	1M x 9	30 <b>3.95</b>	3.45

Config. Pins

### Kingston Memory Modules

Part No.	Mfr. Cross Ref. No.	Capacity	Description	Config.	Pins	1	10
284998CH	KVR400X64C25/512	512MB	DDR400 ♠	64M x 64	184	\$135.69	\$127.89
285026CH	KVR266X64C25/512	512MB	DDR266 ♠	64M x 64	184	. 114.15	102.75
285018CH	KVR266X64C25/256	256MB	DDR266 ♠	32M x 64	184	69.95	66.45
285042CH	KVR133X64C3/256	256MB	PC133 ♠	32M x 64	168	68.29	64.89
285034CH	KVR133X64C3/128	128MB	PC133 ♠	16M x 64	168	37.95	32.45
200034СП	KVK133A04C3/120	IZOIVID	PC133 -	10IVI X 04	100	37.95	32.4

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We offer free technical documents for most of the products we carry.

Find them easily on the product spec page @ www.Jameco.com.

#### CPU Heat Sinks and Fans\*

Part No.	Description	Size (H" x W" x D")	Approvals 1	10
206244CH	Heat sink w/ dual fan slot (SECC 2)	5.25 x 1.95 x 1.30	CE \$12.95	\$11.65
319951CH	Heat sink w/ fan for PIII slot 1	2.0 x 4.9 x 8.5	— 9.85	8.85
181278CH	Heat sink w/ fan for socket 7 (ATX)	2.12 x 2.05 x 1.67	UL/CE/CSA 8.49	7.65
190545CH	Heat sink w/ fan for socket 370	2.45 x 2.42 x 2.10	— 13.55	12.19
319185CH	Heat sink w/ fan for socket 7 & 370	1.38 x 2.36 x 2.59	— 7.65	7.25
118092CH	Heat sink w/ fan for 586 CPU w/ snap	2.18 x 2.30 x 0.86	UL/CE/TUV 4.95	4.49
129226CH	Heat sink for 486 CPU – adhesive back	1.70 x 1.63 x 0.36	— 2.95	2.65
191636CH	Heat sink w/ fan for 486 CPU w/ clip	1.85 x 1.92 x 0.72	UL/CE/TUV 5.95	5.36
174115CH	Heat sink w/ fan for 486 CPU w/ snap <sup>†</sup>	1.93 x 1.96 x 0.93	UL/CU 3.95	3.56
309340CH	Heat sink w/ fan for socket 7 (AT/ATX)	1.57 x 2.03 x 2.07	— 8.99	8.59
308742CH	Heat sink w/ fan for 586 CPU w/ snap <sup>†</sup>	0.73 x 2.05 x 1.94	— 11.39	10.25
<b>†</b>				

<sup>14&</sup>quot; lead wires \* See website for photos



<sup>\*</sup>Also compatible w/ Athlon and Duron processors.

<sup>†</sup> For complete specs see www.Jameco.com

#### لطint

#### **Boxed Processors**

#### Desktop Processors



•			Speed	FSB			
Part No.	Product Name	Mfr. Part No.	(GHz)	(MHz)	Cache	Package	1 10
345471CH	Xeon <sup>†</sup>	BX80532KE2800D ♠	2.8	533	512kB	mPGA-604 <b>\$365.9</b>	5 \$351.39
344532CH	Xeon	RN80532KC041512 4	2.0	400	512kB	INT3 231.2	5 217.29
344567CH	Xeon LV	RK80532EC025512 4	1.6	400	512kB	FC-PGA2p 252.6	9 237.49
344541CH	Xeon LV	RK80532EC041512	2.0	400	512kB	FC-PGA2p 249.9	9 243.45
283397CH	Pentium® 4 <sup>†</sup> *	BX80532PG2400D 4	2.4	800	512kB	mPGA-478 205.9	5 199.29
283354CH	Pentium® 4 <sup>†</sup> *	BX80546PE2800D ♠	2.8	533	512kB	mPGA-478 <b>247.0</b>	9 234.75
283291CH	Pentium® 4 <sup>†</sup> *	BX80532PG2800E <b>◆</b>	2.8	800	1MB	mPGA-478 <b>257.9</b>	5 250.25
283320CH	Pentium® 4 <sup>†</sup> *	BX80532PG3000D 4	3.0	800	512kB	mPGA-478 293.5	5 264.19
283338CH	Pentium® 4 <sup>†</sup> *	BX80532PE3066D ♠	3.06	533	512kB	mPGA-478 293.7	5 264.35
283311CH	Pentium® 4 <sup>†</sup> *	BX80532PG3200D 4	3.2	800	512kB	mPGA-478 <b>367.0</b>	9 329.39
283274CH	Pentium® 4 <sup>†</sup> *	BX80546PG3200E ♠	3.2	800	1MB	mPGA-478 311.5	9 304.99
345498CH	Pentium 4 <sup>†</sup>	BX80547PG3200E ♠	3.2	800	1MB	Socket T 305.9	9 293.99
345480CH	Pentium 4 <sup>†</sup>	BX80532PG3400FS	<b>♦</b> 3.4	800	512kB	Socket T 1,353.8	9 1,286.25
283451CH	Celeron® <sup>†</sup>	BX80532RC2000B <b>◆</b>	2.0	400	128kB	mPGA-478 91.0	9 88.85
283434CH	Celeron <sup>®†</sup>	BX80532RC2400B 4	2.4	400	128kB	mPGA-478 99.4	96.45
283418CH	Celeron® <sup>†</sup>	BX80532RC2600B <b>◆</b>	2.6	400	128kB	mPGA-478 126.3	5 119.95
345519CH	Celeron D <sup>†</sup>	BX80546RE2400C ♠	2.4	533	256kB	— 104.2	5 99.05

♣ These products ship from a separate warehouse and may not ship same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD. ↑ Includes active heat sink; \* Hyper-threading technology

#### Embedded Processors (see below)

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		•	Speed	FSB			UVLSL	W
Part No.	Product Name	Mfr. Part No.	(GHz)	(MHz)	Cache	Package	1	10
344241CH	Pentium	A8050266166	166	66	_	SPGA	. \$79.45	\$62.69
344276CH	Pentium MMX	FV80503CSM66166	166	66	_	PPGA-296	77.99	61.55
344268CH	Pentium MMX	FV80503CSM66266	266	66	_	PPGA-296	80.89	71.09
344313CH	Pentium II	KC80524KX266256	266	66	256kB	BGA1	. 103.45	90.89
344284CH	Pentium II	KC80524KX333256	333	66	256kB	BGA1	. 103.45	90.89
344452CH	Pentium III	KC80526LY400256	400	100	256kB	BGA2	. 117.55	103.29
344444CH	Pentium III	KC80526LY500256	500	100	256kB	BGA2	. 133.25	117.09
344401CH	Pentium III	RB80526PY600256	600	100	256kB	FC-PGA	. 117.55	103.29
344436CH	Pentium III	KC80526GY850256	700	100	256kB	BGA2	. 107.39	100.95
344428CH	Pentium III	RB80526PY700256	700	100	256kB	FC-PGA	. 117.55	103.29
344410CH	Pentium III	RB80526PZ001256	1000	133	256kB	FC-PGA	. 133.25	117.09
344575CH	Pentium III	RK80530KZ012512	2.8	133	512kB	FC-PGA2	230.19	218.69
344516CH	Pentium 4	RK80532PC041512	2.0A	400	512kB	mPGA-478	. 238.79	224.45
344559CH	Pentium 4	RK80532PE056512	2.4	533	512kB	mPGA-478	. 183.99	181.55
344305CH	Celeron	FV80524RX300128	300A	66	128kB	PGA-370	84.49	66.69
344348CH	Celeron	KC80526LY400128	400	100	128kB	BGA2	81.25	64.15
344330CH	Celeron	FV80524RX433128	433	66	128kB	PPGA	73.35	64.45
344399CH	Celeron	RB80526RX733128	733	66	256kB	FC-PGA	72.19	56.99
344381CH	Celeron	RB80526RY850128	850	100	128kB	FC-PGA	72.19	56.99
344356CH	Celeron	RK80530RY009256	1.2	100	256kB	FC-PGA2	78.39	68.89
344461CH	Celeron	RK80532RC041128	2.0	400	128kB	mPGA-478	94.05	91.79
344479CH	Celeron	RK80532RC060128	2.5	400	128kB	mPGA-478	. 117.55	103.29

## Intel® CPUs with Legs

You know engineers prefer to design with the components that possess long life cycles. For this very reason, and because Intel CPUs are notorious for their short life spans, Intel has created the Embedded Processor

Roadmap. This roadmap earmarks the processors that Intel will continue to manufacture and support for many years, even after the consumer popularity for the processor has long since vanished. In other words, the CPUs listed on Intel's Embedded Processor Roadmap will be around for many years to help support the long-term needs of embedded applications. You get the stability of Intel Architecture combined with the longevity of other traditional embedded components.

To download a copy of the Intel Embedded Processor Roadmap, just type "Intel Embedded Roadmap" in the search field at <a href="https://www.Jameco.com">www.Jameco.com</a>.

Practical Practices
Money Saving Tips for the Engineer



### **Hard Disk Drives**

#### 3.5" LP EIDE/100 Disk Drives

					Seek	Cacille	IVIII .		
Part No.	Model No.	Capacity	Interface	RPM	(ms)	(MB)	Warranty	1	5
319361CH	WD2500SB <b>♠</b>	250GB	EIDE/100	7200	8.9	8	3 yrs	\$243.59	\$231.49
319370CH	WD1600SB ♠	160GB	EIDE/100	7200	8.9	8	3 yrs	143.55	136.59
319388CH	WD1200SB ♠	120GB	EIDE/100	7200	8.9	8	3 yrs	131.39	124.85

#### 3.5" LP UATA/100 Disk Drives

					seek	Cacne	IVIII .		
Part No.	Model No.	Capacity	Interface	RPM	(ms)	(MB)	Warranty	1	5
319441CH	WD2500JB ♠	250GB	UATA/100	7200	8.9	8	3 yrs \$	228.55	\$217.15
319505CH	WD2500BB ♠	250GB	UATA/100	7200	8.9	2	1 yr	223.45	212.29
319450CH	WD2000JB <b>♠</b>	200GB	UATA/100	7200	8.9	8	3 yrs	151.69	144.35
319513CH	WD2000BB ♠	200GB	UATA/100	7200	8.9	2	1 yr	146.25	139.15
319468CH	WD1600JB ♠	160GB	UATA/100	7200	8.9	8	3 yrs	129.99	123.59
319521CH	WD1600BB ♠	160GB	UATA/100	7200	8.9	2	1 yr	117.85	111.95
319476CH	WD1200JB ♠	120GB	UATA/100	7200	8.9	8	3 yrs	115.15	109.35
319530CH	WD1200BB ♠	120GB	UATA/100	7200	8.9	2	1 yr	106.99	101.65
319484CH	WD800JB ♠	80GB	UATA/100	7200	8.9	8	3 yrs	. 89.39	84.99
319548CH	WD800BB ♠	80GB	UATA/100	7200	8.9	2	1 yr	. 79.89	75.95
319492CH	WD400JB ♠	40GB	UATA/100	7200	8.9	8	3 yrs	. 75.85	72.05
319556CH	WD400BB ♠	40GB	UATA/100	7200	8.9	2	1 yr	. 68.99	65.69

#### 3.5" SATA/150 Disk Drives

					Seek	cacne	IVITT.		
Part No.	Model No.	Capacity	Interface	RPM	(ms)	(MB)	Warranty	1	5
319337CH	WD2500SD ♠	250GB	SATA/150	7200	8.9	8	3 yrs	\$253.15	\$240.55
319396CH	WD2500JD ♠	250GB	SATA/150	7200	8.9	8	3 yrs	. 239.69	227.75
319409CH	WD2000JD <b>♠</b>	200GB	SATA/150	7200	8.9	8	3 yrs	. 166.59	158.65
319345CH	WD1600SD ♠	160GB	SATA/150	7200	8.9	8	3 yrs	. 149.15	141.79
319417CH	WD1600JD ♠	160GB	SATA/150	7200	8.9	8	3 yrs	. 135.49	128.99
319353CH	WE1200SD ♠	120GB	SATA/150	7200	8.9	8	3 yrs	. 132.75	126.19
319425CH	WD1200JD ♠	120GB	SATA/150	7200	8.9	8	3 yrs	120.55	114.99
319433CH	WD800JD ♠	80GB	SATA/150	7200	8.9	8	3 yrs	93.45	88.79
319311CH	WD740GD ♠	74GB	SATA/150	10,000	4.5	8	5 yrs	. 260.19	247.19
319329CH	WD360GD <b>◆</b>	36.7GB	SATA/150	10,000	5.2	8	5 yrs	. 153.25	145.65

#### 2.5" LP EIDE/100 Disk Drives

					JUCK	Cacile	IVIII .		
Part No.	Model No.	Capacity	Interface	RPM	(ms)	(MB)	Warranty	1	5
319732CH	WD400UE ♠	40GB	EIDE/100	5400	12	2	1 yr	\$99.69	\$94.71
319708CH	WD400VE ♠	40GB	EIDE/100	5400	12	8	1 yr	112.25	106.65
319724CH	WD600UE ♠	60GB	EIDE/100	5400	12	2	1 yr	133.35	126.70
319695CH	WD600VE ♠	60GB	EIDE/100	5400	12	8	1 yr	140.49	133.49
319716CH	WD800UE ♠	80GB	EIDE/100	5400	12	2	1 yr	190.25	180.75
319687CH	WD800VE ♠	80GB	EIDE/100	5400	12	8	1 yr	196.25	186.41

Sook Cooks Mfr

## Legacy 3.5" Hard Disk Drives\*

Part No.	Capacity	Description	Warranty	1	10
146333CH	2.5GB♣	EIDE/FAST ATA-2	1 year	\$33.29	\$29.95
151044CH	4.3GB♣	EIDE/Ultra DMA33	1 year	49.95	45.95
124978CH	1.27GB♣	IDE	1 year	29.95	26.95
118949CH	850MB <b>♣</b>	IDE	1 year	49.95	47.45
115764CH	425MB <b>♣</b>	IDE	3 mos	45.95	43.65
189914CH	9.1GB <b>♣≎</b>	Ultra-wide SCSI SCA	3 mos	25.49	19.95

\* Manufacturers may vary & capacity may exceed specification

♣ Pull = Extra Savings Blue Part No. = Limited Quantity Available

# Quantity SAVE

MEW

## **Legacy Intel® Desktop Processors**

	0 ,	Speed			
Part No.	Description	(MHz)	Package	1	10
311204CH	Intel Celeron® processor♣	800	FCPGA-370	\$99.95	\$94.95
311212CH	Intel Celeron® processor♣	566	FCPGA-370	47.79	45.39
183118CH	Intel Pentium® III processor	600	Slot 1	99.95	94.95
183100CH	Intel Pentium® II processor	400	Slot 1	95.99	71.99
151651CH	Intel Pentium® II processor	300	Slot 1	89.95	85.45
190060CH	Intel Pentium® II w/ heat sink	233	Slot 1	89.95	79.95
150501CH	Intel Pentium MMX® processor	233	376/PGA	69.95	62.95
140054CH	Intel Pentium MMX® processor♣	200	376/PGA	49.95	37.45
130841CH	Intel Pentium® processor	166	296/PGA	55.95	45.81
130833CH	Intel Pentium® processor	133	296/PGA	39.95	35.95
118421CH	Intel 486DX2 processor♣	66	168/PGA	19.95	16.96

♣ Pull = Extra Savings

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### 1.44MB 3.5" Internal Floppy Disk Drives

- IBM PC/XT and higher compatibles
- · Compatible with DOS versions 3.3 or higher

· Automatically determines if disk is high or low density



Size: 4.0"W x 5.9"D x 1.0"H (actual drive size)

· Weight: 1.4 lbs.



Part No.	Cross Ref. No	o. Mfr.	Color	1	10
115490CH	FD235	TEAC	Beige	21:95 1 \$19.95	\$17.95
189165CH	♣	Varies	Beige	10.95	9.95
249367CH	MPF920-Z	Sony	Beige	16.95	15.99

#### **Internal Optical Drives**

- · 5.25" half-height design One-vear warrantv
- Manufacturer varies





CD-ROM

Part No.	Speed	Buffer	kB/sec.	1	10
189069CH	40x <b>♣</b>	128kB	6000	. \$32.95 \$19.99	\$18.99
				25.35	
189448CH	56x	128kB	8400	\$39 <sup>.95</sup> 29.95	28.45

## CD-RW/DVD

 52x read/write; 32x rewrite: 16x DVD



Speed Buffer kB/sec. 1 10 **345017CH** 52x **♠** 2MB 

#### DVD-RW

 48x read: 16x and 8x write; 4x rewrite



◆ These products ship from a separate warehouse and may not ship same day. Each warehouse will accrue separate shipping charges Sorry, we're unable to ship COD

#### CD-ROM Audio Cables





208514CH

Part No.	Connection from Sound Blaster to	Length	1	10	50
127546CH	Sony/MPC2	25" \$	2.95	\$2.65	\$2.29
168612CH	Universal	18"	4.95	4.45	3.99

#### **CD Accessories**



Part No.	Description	1	5	10
249447CH	48x/700MB/80 min./100 pk. \$	30.45	\$28.95	\$26.55
172179CH	Single jewel case	49	.41	.31
	Paper envelope 25 pk		2.25	1.99
208493CH	Slim asst, color 10 pk.\$3.9	3.09	2.79	2.54

Found a product at a lower print advertised price? We'll beat that price by 10% right down to our cost.

#### Thermoelectric Cooler Chips

• Cools down to -30°C (dependent on external temp.)

172048CH

- · Heat or cool by changing direction of current
- 20 AWG wire leads, 4" long
- Temperature = 60°C max.
- 172030CH: 8.4VDC max.
- Couples: 71\* Watts: 19.7
- Current: 4A max.

Size: 1.2"L x 1.2"W x 0.2"T

172048CH: 15.4VDC max. Couples: 127\*

• Watts: 35.6 Current: 4A max. • Size: 1.6"L x 1.6"W x 0.2"T

172056CH: 15.4VDC max.

Couples: 127\* • Watts: 79.1

 Size: 2.0"L x 2.0"W x 0.2"T · Current: 8A max.

Part No.	Mfr. Cross Ref. No.	1	10
172030CH	TEC30	\$19.95	\$17.95
172048CH	TEC40	25.95	22.95
172056CH	TEC50	33.75	29.35

Couples: # of P&N type semiconductor pairs connected electrically in series

#### **Front Panel Access Ports**

Enjoy easy up front access to all your most used ports, including USB, IEEE 1394, audio, and serial ports, without moving the PC. 208004CH: 2 USB; 1 IEEE 1394;

Line-In;Line-Out;





Tower not included

P/N 210999CH

213532CH: 4 USB; Line-In; Line-Out

Part No.	Description	1	10
208004CH	Front panel port	\$34.95	\$32.45
213532CH	Front panel port	18.95	16.95

#### PCMCIA Card Drive For Desktop PC

Now you can have a PCMCIA drive on your desktop PC. Supports SRAM cards, FLASH cards, LAN cards and FAX/MODEM cards.



Windows® 3.1 or later



 Supports Type I/II/III PCMCIA cards Part No. Description

\$59.95 \$34.65 210999CH PCMCIA drive .. \$31.47 We've expanded our selection of HDD enclosures, turn to page 199 for more.



#### **Removable IDE HDD Enclosures** For 3.5" Drive Bay

- · For quick drive swapping
- Power LEDs
- · Keylock for security

#### 196040CH:

- Size: 5.8"W x 8.5"D x 1.5"H
- · Weight: 1.2 lbs.

196031CH:

• Size: 4.1"W x 7.5"D x 1.6"H • Weight: 0.8 lbs. 319775CH:

 Size: 5.8"W x 8.9"D x 1.6"H
 Weight: 1.32 lbs. Includes: Inner cable with IDE connector

Part No. Description 196040CH IDE encl. w/ insert .. \$27.95 \$20.95 \$14.69 319775CH IDE encl. w/ insert .... 15.55 14.05 Insert for 196040CH .. 19.95 16.16

### Removable IDE HDD Enclosure For 5.25" Drive Bay

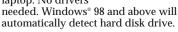
- · Supports DMA 66 hard drive
- Retaining lock mechanism
- 12VDC @ 50mA fan
- · CFM rating: 5.6
- Size: 5.9"W x 8.7"D x 1.6"H
- · Weight: 1.3 lbs.

Includes: Mounting hardware



#### External IDE HDD Enclosure with Parallel Interface

An external HDD enclosure for IDE hard drives with a parallel port interface to be connected to a PC or laptop. No drivers



- Parallel port interface
- Built-in fan and 110V power supply

Includes: Parallel cable and power cord

Part No Description 249316CH HDD external enclosure \$17.95

#### Business Card CD-R Kit

Differentiate yourself or your business from others. This kit includes 12 50MB capacity CD-R and sleeves, 16 labels and label design software. A great way to



promote your business in trade shows and exhibits. Easy to carry and cost-effective.

Part No.	Description	1	5
249308CH	Business card CD-R kit	\$5.59 \$4.95	\$3.46









18	0857CH	117217011		32000011		
Part No	. Mfr. Cross Ref. No.	Description	Wt. (lbs.)	1	10	25
180857	7CH HDB35	3.5" hard drive mount kit (short)		\$3.89	\$3.49	\$3.15
117217	CH HDMK	3.5" kit (w/ black & gray faceplates)	0.6	. \$ <sup>7.95</sup> 5.75	5.18	4.66
320880	CH SMK	3.5" to 5.25" mounting kit (beige faceplate)	0.5	5.89	5.29	4.79



### **PC Speakers**

Perfect for desktop PCs with limited amount of space. Compatible with any desktop PC.



- · 3.5mm stereo male plug
- Size: 4.7"H x 3.0"W x 4.0"D

Part No.	Model No.	1	5	10
311079CH	5065-5746 <b>\$19</b> :95	\$15.99	\$14.39	\$12.95



#### **Dragon 180-Watt** Multimedia Speakers

- · 2-Channel stereo amplifier
- · Magnetically shielded
- Two 3" 4Ω fullrange speakers
- Frequency response: 100Hz to 20kHz
- · Front panel control for volume, power, 3.5mm mini stereo jack
- Size:7.0"H x 3.0"W x 5.3"D
   Weight: 2.0 lbs. Power requirements: 2-prong 110VAC input

Part No.	Description		1	10	25
277229CH	180W speake	rs \$14.9	5\$9.99	\$8.99	\$8.09

#### Multimedia Harman/Kardon Amplified System

· 4.5W RMS per amplified speaker

• Transducer: 3" full range driver, magnetically shielded

Freq. range: 90Hz to 20kHz

· Volume control, bass and treble control, LED indicator and headphone jack

Size: 8.5"H x 4.5"W x 5.0"D • Weight: 4.7 lbs.

Includes: 16VAC @ 1A power supply

Part No.	Description	1	10
211001CH	H/K speaker system	\$12.95	\$11.65

### 480-Watt Multimedia Speakers

- · 2 magnetically shielded speakers
- 2-channel stereo amplifier
- Push button type power switch with LED indicator
- · Knob controls for volume, bass & treble
- · Input voltage: 120VAC
- Size: 5.5"W x 7.0"D x 9.1"H · Weight: 5.3 lbs.

<b>196066CH</b> 480W speakers \$39.95 \$35.95	Part No.	Description	ı	10
	196066CH	480W speakers	\$39.95	\$35.95

## **Hands-Free Condenser Microphone**

- Cord length: 8'
- Connector: 3.5mm male stereo plug
- Size: 1.9"L x 1.2"W x 0.3"H
- · One-year warranty

Part No.	Description	1	10	50
135247CH	Microphone \$4.4	9	\$3.99	\$3.65

#### **Hands-Free Condenser** Microphone

- · Clip on microphone
- · Cord length: 8'
- Connector: 3.5mm male stereo plug
- Size: 1.7"L x 1.3"W x 0.9"H

Part No.	Description	1	10	100
319759CH	Microphone	\$3.89	\$3.69	\$3.55

## Over 99% of Our **Products Are In Stock**

Place your order by 6PM EST for same business day shipment.

## Books and Interface Cards

#### Parallel Port Complete

Lakeview Research Hands-on approach to PCs and their connections to parallel ports. This state-ofthe-art book offers many tips on how to get the most out of your parallel port. Enhanced (EPP) and extended capabilities (ECP) types are covered. (343 pages, 1999)

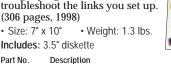


- Windows® 3.1 & Windows® 95 Selecting cables • PC to PC links • Size: 7.0" x 10.0" • Weight: 1.4 lbs.
- Includes: 3.5" diskette

Part No. Description 138261CH Parallel Port Complete ......\$32.89

## Serial Port Complete

Lakeview Research Provides you with everything you need to design, program, install and troubleshoot the links you set up. (306 pages, 1998)





## Serial Port Complete ..... Pocket PC Reference Book

Sequoia Publishing The new Pocket PCRef 13th edition includes troubleshooting tools, wiring diagrams, connectors and pin outs, commands for WinXP and UNIX, CDROM drive configuration data, hard drive specifications, PC hardware, ASCII numbers, CPU processor



specifications and much more. (1088 pages, 2004) 1088 pages · Size: 4" x 6"

Part No. Description Price 355231CH Pocket PCRef .. \$15.15

## Complete Embedded Ethernet and Internet Book

Lakeview Research Learn about networking with embedded systems. Topics include networking basics, hardware options in building a network, using internet protocol in local and internet communications. (482 pages, 2003) • Size: 7.0" x 9.0" • Weight: 1.7 lbs.



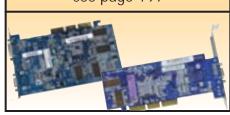
#### PCI GPIB IEEE-488.2 Board

#### PCI Bus

- 1 MB/s transfer rate
- · 1024 word FIFO buffer
- 7 interrupt lines, shared interrupt capability IEEE 488.2 standard interface
- Complete talker/listener/controller
- · Transparent interrupt enabling/disabling

8.9
32.7
34.1
6.1
3

# All New Graphics Cards see page 197



### **Digital Input/Output Board** TTL Level

#### PCI Bus

- Output: 2.5mA @ 0.45V sink, 2.5mA @ 2.4V source
- · 24-bit digital I/O
- · Three 8-bit ports

Includes: InstaCal: installation & test utilities software

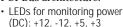
Droduct No

i ait ivo.	i i ouuct ivo.		- 10
197827CH	PCI-DIO24	\$88.95	\$85.95



#### **Diagnostic Card for PCI-Bus Systems**

This is the first diagnostic card for monitoring POST results in systems using PCI-Bus architecture.

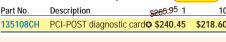


(DC): +12, -12, +5, +3 Comprehensive manual

w/ error codes from all major BIOS manufacturers including AMI, AWARD, PHOENIX and more

· One-year warranty

Description



## Digital Video Interface Cable

- DVI cable for flat panel LCD monitors and highend video graphics cards
- Connector: DVI-D single link type

· Length: 6'





Part No. Description 320346CH DVI cable ...... \$13.45 \$12.69 \$11.99









Lower \$\$\$















#### **USB Interface Cards**

Part No.	Manufacturer	Mfr. No.	Bus Type	Ports	Connectors	Product Description	1	10
208047CH	_	CI-6620	PCMCIA	2	USB	32-bit cardbus, 480Mbps transfer rate, supports Windows® 98/ME/2000 and MAC OS 8.6 \$48:65		\$32.44
344794CH	SYBA	SD-PCB-USB	PCMCIA	2	USB	32-bit cardbus Type II compliant, USB 2.0 compliant, data transfer rate of 480Mbps		27.89
310201CH	_	USB/PCI5	PCI	4 ext / 1 int	USB	USB 2.0 compliant, open host controller interface USB 1.0A compliant, Windows® 98/ME/2000/XP		14.19
344815CH	SYBA	SD-PCB-COM	PCMCIA	4	USB/Firewire	32-bit bus Type II slot, USB 2.0 and IEEE 1394a compliant, open HCI V1.0 and 1.1 compliant		39.52
344778CH	SYBA	SY-VIA-5UB	PCI	4 ext / 1 int	USB	32-bit host interface, VT6212 (USB 2.0) host controller chip, USB 2.0 Rev 1.1 compliant		12.86

#### Firewire Interface Cards

215984CH		U02-00315	PCMCIA	2	IEEE-1394	32-bit bus, IEEE1394 compliant, 400Mbps max., backward compatible, supports \$56:59	\$44.29	\$40.29
						Windows® 98SE/ME/2000/XP and MAC OS 8.6 or above		
344760CH	SYBA	SY-VIA-4F	PCI	3 ext / 1 int	Firewire	VT3606 controller chip, 32-bit, IEEE 1394-1995 and 1394a compliant		20.70

#### **Network Interface Cards**

285501CH	_	RTL8139D	PCI	1	RJ-45	IEEE802.3 and 802.3u compliant, auto detection of 10Mbps or 100Mbps, N-way 10/100 \$13.4 auto negotiation.		\$12.15
285510CH	_	905B ♣	PCI	1	RJ-45	IEEE802.3 and 802.3u, N-way 10/100 auto negotiation \$43.99	11.99	10.79
285528CH	_	GD82559 🍁	PCI	1	RJ-45	IEEE802.2 and 802.3 compliant, 6kB cache on board, 10/100 auto negotiation, \$43.99	11.99	10.79
						supports Windows* 95/98/2000/NT3.51/NT4.0		
313710CH	Phoebe	OCTNIC-100	PCI	1	RJ-45	IEEE802.3 auto negotiation compliant, Windows® 95/98/NT/ME/2000/XP compatible.		11.99
289238CH	3-COM	3C509B-	ISA	2	RJ-45/	IEEE802.3i (10Base-T) and IEEE802.3 (10Mbps) compliant.		8.99
		COMBO			AUI/BNC			
308769CH	3-COM	3C509B-TPO	ISA	1	RJ-45	IEEE802.3i (10Base-T) and IEEE802.3 (10Mbps) compliant.		13.95
308646CH	COMPEX	RL200A-PnP	ISA	2	RJ-45/BNC	IEEE802.3 (10-BaseT) 10Mbps, supports NETWARE, LAN manager,	18.09	16.25
						Windows® 95/NT/Workgroups/OS2.		
355039CH	GetOn	C130	PCMCIA		Wi-Fi	32-bit cardbus interface, IEEE 802.11b compliant, wireless data-rate (1Mbps to 11Mbps), supports Windows* 98/2000/ME/XP		16.72

#### Serial Interface Cards

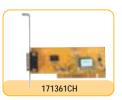
171361CH	_	4025A	PCI	1	DB9	32-byte FIFO, 921kb/sec transfer rate, supports IRQ sharing, single 16C550		\$35.95
171555CH	_	99378	ISA	2	DB9	16-byte FIFO, 921kb/sec transfer rate, IRQ 3/5/7/9/10/11/1/15 and address jumper configurable, dual 16C550 DB9 male.		21.85
132572CH	_	TC-400-550	ISA	4	DB9/DB25	16 or 32-byte FIFO, supports IRQ sharing, dual 16C550 DB9 male, dual 16C550 dual DB25 male.	59.95	53.95
172005CH	_	99467	PCI	2	DB9	32-byte FIFO, 921kb/sec transfer rate, supports IRQ sharing, dual 16C650 DB9 male.		43.65
171547CH	_	99468	PCI	4	DB25	32-byte FIFO, standard RS-232 interface, 921kb/sec transfer rate, supports IRQ sharing 16C550		116.95
171660CH	_	99469	PCI	8	DB25	32-byte FIFO, standard RS-232 interface, 921kb/sec transfer rate, supports IRQ sharing 16C650.	179.95	161.95
164451CH	Measurement Computing	PCM- COM232 <b>☉</b>	PCMCIA	1	DB9	PCMCIA II compliant, configured as COM1/COM2/COM3/COM4.	97.95	92.95
344903CH	SYBA	SD-PCI-1S	PCI	2	DB9	32-bit PCI bus, dual DB-9 male, Nm9835CV chipset	27.49	26.15





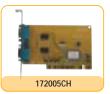


















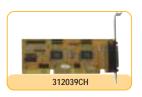






















CALE



#### Parallel Interface Cards

Part No.	Manufacturer	Mfr. No.	Bus Type	Ports	Connectors	Product Description	1	10
146691CH	_	4006A	PCI	1	DB25	BPP/SPP mode compliant, Windows® 95/98/NT4.0 drivers supported	\$23.95	\$21.95
171926CH	_	4008A	PCI	1	DB25	32-byte FIFO, 2MB/sec transfer rate, supports ECP and EPP, supports IRQ sharing, DB25 female.	39.95	35.95
163707CH	_	4014A	PCI	2	DB25	BPP/SPP mode compliant, Windows® 95/98/NT4.0 drivers supported	<sup>8.95</sup> 26.55	24.15
312039CH	Kouwell	KW-508G-2	ISA	2	DB25	Dual DB25 female. ECP/EPP/SPP mode compliant, LPTport, IRQ selectable	24.05	22.85
344874CH	SYBA	SD-PCI-1P	PCI	1	DB25	32-bit PCI, single DB25 female, NETMOS Nm9805CV chipset, IEEE 1284 compliant	23.59	22.45

#### Serial and Parallel Interface Card

169594CH		4078A	PCI	_	DB25 BPP/SPP mode compliant, Windows® 95/98/NT4.0 drivers supported. Includes \$56.95 \$5		\$54.09	
						parallel DB25 female panel bracket assembly (single parallel / dual 16C550 serial)		
Super I/O Controller Cards								

oupo		no. carac						
131318CH	_	KW-557A	ISA	_	Mult.	Supports 2 IDE and 2 floppy drives, single parallel port, dual RS-232 (16550 UART).	\$29.95	\$26.95
206316CH	_	CA8390	ISA	_	Mult.	16-bit data transfer, supports 2 floppy drives (360k-1.44Mb), controls 2 AT BUS hard disk drives	11.09	10.09
291901CH	_	MCT-IDEFH-2	ISA	_	Mult.	16-bit interface, supports 2 IDE hard drives up to 528MB and 2 floppy drives from 360kb to 1.44Mb, jumper selectable for enabling and disabling ports	28.89	25.99
149294CH	_	CI-2020	ISA	_	50-pin F	DOS/Windows® /NT/95/OS2 Netware/SCO UNIX, internal and external SCSI connectors.	37.35	29.99
191513CH	Adaptec 🖸	AHA-2940U2B	PCI	_	68-pin F	AIC-7890AB chipset, Windows® 95/NT, Netware, OS/2 compatible, internal/external ULTRA II SCSI	29.95	26.95
					Ultra SCSI2	68-pin connectors,		

#### Modem Card

311706CH Dolphin CX11252 PCI — RJ-11 300-56K data line speed, 2400-14.4K fax line speed, Group 3 w/ T.30 protocol compatible.	\$8.99	\$8.65	5
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#### Video Graphics Cards

248840CH	_	PS32985DR- 8MB	PCI	_	HDDB15	Savage IX 8MB graphics accelerator, built-in direct draw accelerator and NTSC/PAL video encoder 4-bit resolution \$395.	95 \$28.99	\$26.35
345181CH	Giga-Byte ♠	GV-R7064T	AGP	_	HDDB15	64-bit memory bus with ATI Radeon 7000 graphics processor, 183MHz core clock speed, 64MB DDR SDRAM	40.49	40.30
345201CH	Giga-Byte ♠	GV-R925128D	AGP	_	HDDB15	128-bit memory bus with ATI Radeon 9250 graphics processor, 128MB DDR memory, supports TV-out, DVI-I port and dual display with hydravision	65.25	61.68
345210CH	Giga-Byte ♠	GV-R925128VH	AGP	_	HDDB15	128-bit memory bus with ATI Radeon 9250 graphics processor, 128MB DDR memory, supports video capture for video editing, TV-out, DVI port, multiview and dual display with hydration	76.75	74.15
345244CH	Giga-Byte ♠	GV-N40128TE	AGP	_	HDDB15	64-bit memory bus with NVDIA GeForce MX4000 chipset, 400MHz mem clock speed, 128MB DDR memory, supports TV-out and multiview	57.55	54.50
345252CH	Giga-Byte ♠	GV-N5212DE	AGP	_	HDDB15	64-bit memory bus with NVDIA GEForce FX5200 chipset, 400MHz mem clock speed, 128MB DDR memory, supports TV-out, DVI port and multiview	66.19	65.05
345261CH	Giga-Byte ♣	GV-N5212DE	AGP	_	HDDB15	128-bit memory bus with NVDIA GEForce FX5000 chipset, 500MHz mem clock speed, 300MHz core clock speed, 128MB DDR memory, supports TV-out, DVI port and multiview	92.89	91.05

#### Sound Cards

300	Sound Cards								
2494	104CH	Creative	CT4830	PCI	_	Multi	2-audio line-out (mini-stereo 3.5mm F), 1 microphone input (mini phono 3.5mm F),	\$36.95 \$29.95	\$26.95
							1 audio line-in (mini stereo 3.5mm F) and 1 game port (DB15F)	Ť	





















#### External 3-Port USB Thumbhub

Expand your single USB port to a stacked 3-port thumbhub.

- USB Revision 1.1 compliant
- · LED indicators uplink/down port communication, and OCP status
- · Supports full speed (12Mbps) and low speed
- · Self-powered mode
- Compatible with Windows® 98/98SE/2000/ME/MAC OS8.5

208451CH 3-port thumbhub



2-Port	Mini	IICR	Huh

\$10.92

- USB 1.1 compliant
- Bus powered mode indicated by power LED
- Downstream port supports full and low speed operations
- Plug & Play

System requirements: IBM compatible Pentium® 233MHz or faster and MAC PC, 64MB of RAM, available USB port, compatible with Windows® 98SE/ME/2000/XP/Mac OS 8.6 or higher

Part No.	Description	1	10
291856CH	2-port mini hub\$	23.25	\$20.95

#### **External 7-Port USB Hub**

- 7 USB-A female output ports
- USB-B female
- root port Plug & Play compatible
- Allows you to attach 128 USB devices to your PC
- · LED indicators for port, status, and power
- Size: 7.9"L x 2.8"W x 1.1"H
   Weight: 2.6 lbs.

Includes: 6VDC power adapter and USB-A male to USB-B female cable

Part No.	Description	1	10
191450CH	7-Port USB hub	\$34.19	\$25.45

#### **External USB-A IrDA Transceiver**

Convert your USB port into an infrared communications port.

- · Adjustable base for height
- and angle Plug & Play
   Supports standard USB port
- Meets IrDA v1.0 and v1.1
- Supports data transfer rate from
- 115.2k up to 4Mbit per second · Transmission distance of 3.3' or 39.4"
- Size: (including base) 2.4"L x 1.6"W x 0.9"H System requirements: Windows® 98/ME/2000/XP

Includes: Manual, extension cable and 3.5" drivers

Part No.	Description	1	10
213903CH	USB-A to IrDA transceiver	\$30.69	\$27.92

#### AmbiCom **Wireless Printer Kit**

Print up to 100 Feet Away, Wirelessly!

The wireless revolution makes your current printer conveniently cable-free! Works with USB connected Canon, Epson, HP and Lexmark printers.

- · USB-B type adapter for printer and USB-A type adapter for PC
- Windows® 98SE/ME/2000/XP and Mac OS X compatible
- Receiver sensitivity: -84dRm 128-hit encryption

- IVECEIVEI	Sensitivity040Din	120-bit elici yption	www.jameco.com and ch	eck on data snee
Part No.	Description	Data Throughput	Frequency Range	P
235133CH	Wireless printer kit	340kbps	2.4GHz – 2.4835GHz	\$69 <sup>.95</sup> \$61

#### **USB Thumb Drives**

Thumb drives are compact and fit easily in your pocket or hang around your neck. Portable and



lightweight, no external power needed. No drivers necessary for Windows® ME and above.

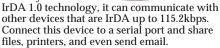
- 10 year data retention Size: 2.9"L x 0.7"W x 0.4"H
- Windows® 98/98SE drivers are available at www..Jameco.com

No. = Limited Quantity Available	SULF
Description	1

Part No.	Description	1_	10
217761CH	32MB <b>3</b>	\$24.95 \$20.29	\$18.45
	64MB		33.71
	128MB		44.96
217795CH	512MB	\$15 <sup>9.95</sup> 99.99	89.99

#### SmartBeam™ Infrared Adapter

Provides the simplest and fastest way to interface your PC or laptop with palmtops, organizers, and even printers. Using industry standard



Includes: Software & DB9 M-to-DB25 F serial adapter

Part No.	Description	1	10
291821CH	Infrared adapter	\$25.89	\$23.29

#### **Everything You Need To Develop Custom USB Peripherals Book**

Lakeview (2nd Edition) Provides an easy-to-use interface for computer peripherals. The book covers topics such as what USB can do, transfer types, chip choices, what's inside a USB controller, writing firmware,

how the host communicates and more. (523 pages, 1999)

• Size: 7.0" x 9.0" • Weight: 1.9 lbs.

Part No.	Description	Price
171900CH	Complete USB Book	\$49.95

## 30-Day Money-Back Guarantee

If you're not completely satisfied with your purchase, simply return the product within 30 days for a refund or exchange. Details on page 258.

For a list of compatible printers, visi

#### irm® 8-Port Ethernet Hub

Although designed to the exacting standards of IBM for use in large corporate networks, its price and easy setup

make it perfect for small office or home office use. Compatible with all standard STP, UTP, and FTP cables. Can be cascaded to support larger networks via the MDI (uplink) port.

• Size: 8.7"W x 5.3"D x 1.1"H • Weight: 1.7 lbs.

Part No.	Description	1	10
226149CH	8-port hub	\$44.95	\$39.95

#### 8-Port Ethernet Hub

Designed for easy installation and high performance in environments



where traffic on the network and the number of users increase continuously. It's small and compact design was specifically designed for small to middle size workgroups and where space is limited. Ideal for deployment with multiple high-speed servers for shared-bandwidth 10Mbps or 100Mbps workgroups.

- · LED indicators for link active and 100Mbps
- Size: 6.4"L x 3.4"W x 1.0"H
- · Weight: 1.2 lbs.

Includes: 5VDC@2.5mA power supply

MEW

Part No.	Description	1	5
320506CH	8-port ethernet hub	\$35.45	\$33.65

## **NETGEAR** 4-Port Firewall Router

11Mbps Cable/DSL

This true firewall is broadband capable, and provides you

with the utmost in business class security - Denial of Service (DoS) protection and Intrusion Detection using Stateful Packet Inspection (SPI), URL access and content

filtering, logging, reporting, and real-time alerts. Up to 253 users can access your broadband connection at the same time.

• Size: 7.4"W x 4.9"D x 1.3"H • Weight: 1.8 lbs. Includes: 10' CAT5 cable, power

adapter, user guide & CD-ROM software 



11Mbps cable/DSL firewall router \$\frac{\partial 67.75}{\tag{60.35}}\$ Part No. 233331CH

#### AUI/10BaseT Transceiver

Provides connectivity with work stations equipped with AUI ports to 10BaseT ethernet local area network. Switch selectable SQE (signal quality error) / "Heartbeat Test" to detect collision.

• IEEE 802.3 10BaseT compliancy

- · 4 LED indicators for receive, transmission, collision and link
- · AUI 15-pin RJ45 connector
- Size: 2.3"L x 1.7"W x 0.8"H · Weight: 0.2 lbs.

Part No. Description 215917CH Ethernet transceiver \$29.95 \$20.39 \$18.55



MEW

### Mobile USB Light

Light up your laptop and work anytime, anywhere!

Whenever and wherever you need light on your keyboard, this UŠB-powered, flexible, plug-and-play LED lamp will deliver. Discreetly illuminate your keyboard during



presentations in darkened boardrooms, or work on the plane without disturbing others.

Part No.	Description	Price
256436CH	Mobile USB light	\$9.99

#### Mobile USB Fan

This is so cool, you'll be its greatest fan!

Take advantage of a great deal on this innovative personal USBpowered fan for laptop computing! You'll enjoy the added comfort of features like a flexible gooseneck mount, soft nylon



b.	lades	and	qui	ie	t motor.
_			_		

Part No.	Description	Price
256461CH	Mobile USB fan	\$8.99

### **USB Keyboard Adapter**

 USB-A female to 6-pin mini DIN male (PS/2)



#### **USB 2.0 Cables**

- · Color: clear
- · Higher transfer rate up to 480Mbps
- Backward compatible w/ USB 1.1 products
- · For additional cable sizes and colors see page 91



Part No.	Description	1	10	25
229551CH	6' USB-A M \$1.6!	5	\$1.49	\$1.39
229569CH	10' USB-A M 1.89	9	1.75	1.65
229593CH	6' USB-A to USB-B M 1.6!	5	1.49	1.39

229551CH	6' USB-A M <b>\$1.65</b>	\$1.49	\$1.39
229569CH	10' USB-A M <b>1.89</b>	1.75	1.65
229593CH	6' USB-A to USB-B M 1.65	1.49	1.39
229606CH	10' USB-A to USB-B M1.89	1.75	1.65
229622CH	6' USB-A M to F 1.65	1.49	1.39
229631CH	10' USB-A M to F <b>1.89</b>	1.75	1.65



## Save Big! **Special** Values!

**New Lower Prices** Orange Sale Priced Items Yellow Quantity Discounts Green **New Products** Pink

#### 2.5" External USB Enclosure

- · 2.5" external enclosure for 2.5" hard drives
- Plug and play; hot-plug Transfer rate: 480Mbps
- (Ver. 2.0) Compatible with Windows® 98/98SE/ME/2000/XP
- Bus powered through USB connector

Includes: USB cable with adapter and CD-ROM software drivers

Part No.	Description	1	10
354984CH	2.5" enclosure	. \$29.39	\$27.89

#### **Multimedia Card Reader**

USB Interface

An easy way San Ysk 🌌 to upload photos, files, movies, and data from your multimedia flash memory card to your computer! Drag and drop files from

- the card to your computer and vice versa.
- · USB-A male connector
- 1 expansion slot for multimedia card
  Compatible with PC's and MAC's

Part No.	Product No.	1	5	10
278125CH	SDDR-1201	\$9.95 \$5.99	\$5.46	\$4.96

#### **USB Card Reader**

This easy to use USB memory card reader is compact and yet very versatile. Supports all types of memory cards: compact flash types I and II, microdrives,



reduced size multimedia cards, memory sticks, standard and mini secure digital cards, and smart media cards. USB 2.0 and 1.1 compliant, it supports transfer rates of up to 480Mbps and direct transfer between different types of memory cards.

- Supports hot-swap and wake-up
- Bus powered no external power supply required
- LED indicators for power on and operation status of individual sockets · Built-in USB-A cable

Part No.	Product No.	1	10	25
344840CH	SD-U2CR \$19.9	95	\$18.95	\$17.95

#### **▼KIMMON** Compact Flash Memory

Compact Flash cards are the most popular type of flash storage used in many electronic devices today. These removable, compact cards are ideal storage solutions for taking more pictures with



your digital camera, listening to more music with your MP3 player, and increasing the productivity your PDA, palmtop, or handheld PC.

- Read speed: up to 2MB/sec
- Write speed: up to 1.2MB/sec
- · Burst mode from/to host interface: 8.3MB/sec
- Burst mode from/to flash interface: 20MB/sec
- · Operating current: 40mA (typical)

Part No.	Size	1	10	25
344962CH	128 MB	\$18.99	\$17.99	\$17.15
344971CH	256 MB	31.69	30.15	28.59
344989CH	512 MB	53.55	50.85	48.29

#### 3.5" Screwless Hard Drive **Enclosure**

- Screwless design
- Rugged Aluminum body
- Plug and play, hot-swapping capability
- Power-on and read/write access LED indicators
- USB 2.0 compliant
- · IDE interface supports ATA, PIO, DMA, and UDMA hard drives
- Size: 8.4"L x 4.7"W x 1.4"H

Includes: USB 2.0 cable, 12VDC @ 1.6A power supply and CD-ROM drivers

Part No.	Product No.	1	5
344735CH	SD-U2PLA-35	\$31.45	\$29.89

#### 5.25" Screwless HDD/CD-ROM **Enclosure**

MEW

- · Screwless design
- Ultra-light plastic body
- Plug and play
- · Power-on and read/write LED indicators
- Audio jack for CD-ROM analog audio output
- USB 2.0 compliant
- IDE interface supports ATA, PIO, ATAPI, DMA, and UDMA devices
- Supports Windows® 98/98SE/ME/2000/XP
- Size: 9.8"L x 6.5"W x 2.3"H

Includes: USB2.0 cable, base, 12VDC @ 1.6A power supply and CD-ROM drivers

Part No.	Product No.	1	5
344751CH	SD-U2DEL-525	\$44.89	\$42.65

#### 5.25" Stackable CD/DVD/Hard **Drive Enclosure**

This 5.25" enclosure is designed to provide a solution in connecting existing storage devices such as 3.5" hard drives, MO drives, CDROM drives, and DVD drives to a USB 2.0 bus. An ideal interconnect for multimedia applications.



- Supports plug-n-play, hot-swap, and wake-up
- Peak data transfer rate of up to 480Mbps
- Accommodates all existing storage devices such as 3.5" IDE hard drives, MO drives, CD and DVD drives Compliant w/ USB specification Rev. 2.0
- · ATA/ATAPI-6, LBA48, PIO Mode, DMA mode, and UDMA mode supported
- Light-weight plastic body
- Size: 10.1"L x 6.5"W x 2.5"H
- · Weight: 2.4 lbs.

Includes: USB-A to USB-B cable, 12VDC @ 2.0A power supply and CD-ROM drivers

h	p.,		
Part No.	Product No.	1	Ę
344743CH	SY-UEN-5MYS-S	\$44.89	\$42.65
For	Drives and	6	

additional HDD Enclosures see pages 193-194.



#### Short Haul Modem

- · Up to 38,400 baud
- · Will communicate over 6.3 miles of cable
- · No external power required
- DCE/DTE selectable

Xon-Xoff or hardware handshaking

RS-232 interface (DB25 female)

**ATEN** 

Part No.	Description	1	10	25
116581CH	Short haul modem	\$29.95	\$26.95	\$23.95

## External 56kbps Fax/Modem with **Digital Answering Machine**

· Digital telephone answering machine with voice mail system

- RS-232 (DB9 female) interface
- Modem speed: 300-56000bps
- Error correction: ITU-T V.42, MNP2-4 Data compression: ITU-T 1.42bis, MNP5
- Flow control: RTS/CTS, Xon/Xoff
- Fax/modem line speed: 2400~14400bps
- Standard compatibilty: ITU-T V.17, V.27 ter, V.29 Command set: Class 1, 1.0, 2 and associated AT command sets • Size: 6.3"L x 4.0"W x 1.3"H

System requirements: Pentium® or PC compatible with 16MB of memory, available RS-232 slot; Windows® 9x/ME/NT4.0/2000/XP

Includes: RS-232 cable (DB25/DB9 female to DB9 male); phone cord, 9VAC@1A power supply, CD-ROM drivers and manual

Part No. Description 10 216493CH Serial modem (Rockwell) \$45:95 \$39.35 \$35.79

### USB Fast Ethernet Adapter

- · Plug and Play
- IEEE802.3 (10 BaseT) and IEEE802.3 (100 BaseT) specification compatible
- USB Rev 1.0 and 1.1 compatible
- Supports OHCI and UHCI Self-powered
- 1 upstream USB port and RJ-45 port
- Supports Windows® 98/ME/2000/XP

Part No.	Description	1	5	10
310797CH	USB-Ethernet Adapter	\$21.69	\$19.55	\$17.55

## **ATEN**

#### RS-232 to RS-485/422 **Bidirectional Converters**

Now a

European

Version!

- Cable length: 4000' max.
- · Data rate: 1MB/second · 4-wire full duplex or
- 2-wire half duplex
- · Controlled by RTS signal
- DCE and DTE selectable 117701CH
- Point-to-point and multidrop operations
- RS-485: terminal block and RJ11 connections
- · RS-232: DB25 female connector
- · Input: 110VAC; except P/N 129218CH 220VAC input
- Weight: 0.9 lbs.
   One-year warranty

197931CH: port powered (power adapter not included)

Data rate: 100kbps

122956CH: features RS-485SI; optical isolation: 2000V

129218CH: features 220VAC input

Includes: 9VDC @ 300mA power adapter

Part No.	Description	1	10
117701CH	RS-232-485/422 <b>\$57</b>	.95	\$51.95
197931CH	RS-232-485/422 69	.95	62.99
122956CH	RS-232-485/422 OPT ISO 119	.99	107.99
129218CH	RS-232-485/422 (220 VAC) 42	.95	36.95

#### Wall Mount Phone Plate with DSL In-Line Filter

Replace your existing regular wall mount phone plates with this phone plate with built-in DSL in-line filter.

- · Stop band isolation is 21dB from 25kHz to 50kHz and 25dB or greater
- Filter topology: 2-pole low pass
- DC resistance through T&R to telephone port is  $13\Omega$  maximum

Size: 4.7"H x 3.2"W x .025"Thick

Part No. Description 10 237041CH Phone mounting plate. \$9.99 \$8.99

### Single-Line Telephone Filter

In-line Z-BLOCKER® filter blocks interference between DSL/HPN, voice and RF from cordless phones. Plugs directly into any standard phone jack and works with any single line phone, fax or dial-up modem.

Description Part No. 25 **196429CH** Telephone filter ....... \$7.95 \$7.15 \$6.25

## Black Magic

### Telephone **Ringing Generator**

Switching inverter that produces low-frequency alternating current to signal telecom ringers or equivalents.

- Series resistor: 300Ω
- Nominal output voltage: 86Vrms
- No reverse polarity protection Frequency: 20Hz

Part No.	Product No.	1	10	25
145816CH	LBMR12	\$26.95	\$24.49	\$21.95

#### **Bidirectional Non-Buffered** Serial-to-Parallel Converter

- Bidirectional conversion of parallel and serial signals
- Serial interface: hardware handshake RTS/CTS, software handshake Xon/ Xoff; DCE/DTE selectable;

parity: odd, even, or no parity; data bits: 7, 8

- Connectors: one DB25 female and one Centronics • Baud rate: 300 to 38,400bps 36-pin male Stop bits: 1 or 2 • Size: 4.0"L x 2.5"W x 1.0"H
- One-year warranty Weight: 0.8 lbs.

Includes: AC adapter (9VAC @ 200mA) and manual Description Part No. 10

116935CH Bi-converter .......... \$49.95 \$44.95 \$39.95

### **Bidirectional** Serial-to-Parallel Converter

### 115.2kbps, 512kB Buffer

- · One DB25 female connector, one Centronics 36-pin male connector
- Fully compatible w/ Win® 95
- DCE/DTE selectable
- Baud rate: 300bps 115,200bps Stop bits: 1 or 2 · FCC class A certified, CE certified · Weight: 0.8 lbs.
- · LED indicator for parallel busy status

· One-year warranty Size: 3.8"L x 2.4"W x 1.0"H Includes: 9VAC @ 200mA adapter

Part No.	Description	1	10
182983CH	Serial/parallel converter	\$48.49	\$44.95

#### **UTP Ethernet Cable Tester**

- · Connector type: RJ45 8P8C
- System used: 258A, 356A, AT&T/Ethernet 10BaseT
- · Miswire, open, short tests

Requires: 9V battery (recommend P/N 151095CH, pg 183)

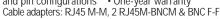
Includes: Zipper case

Part No. 115895CH 4.5"L x 2.5"W x 1.3"H ...... \$29.95 \$26.95

#### **Modular Cable Tester**

Easily read correct pin configuration of 10baseT, 10base2, RJ45/RJ11 modular cables, 258A, TIA568A/568B, token ring, etc.





- On-board conn.: 2 RJ45F (tester) & 1 RJ45F (remote)
- Size: 4.0"L x 2.5"W x 1.0"H (Main console)

 Size: 4.0"L x 1.3"W x 1.0"H (Remote) Includes: Manual and test cables

Part No. Description 145710CH Modular cable tester ...... \$84.95 \$76.49

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## **Tone Generator & Amplifier Probe**

#### For Tracing Wires & Cables

- · Tests wire trace, continuity, clear/busy/ringing line, tip/ring identification
- Insulated inductive probe tip prevents shorting conductors
- Selectable continuous or variable tone generation
- · Output jacks for both headphones and handsets Includes: Alligator test leads, modular phone connector cables, 9V battery, and carrying pouch

Part No. Description 198002CH Tone gen. & amp. probe ..... \$79.95 \$71.95

#### Net Toner and Probe Kit

With testing functions such as sending tones, verifying lines, indicating line conditions, identifying tip and ring, providing "talk" battery and testing continuity, you can use this kit on single conductor, twisted pairs, coaxial cables, and non-energized electrical wiring. Connections include

alligator clips, RJ45 jacks and RJ12 plugs. Includes: Padded zipper case w/ belt loop & spare tips

Part No. Description 227897CH Net toner & probe kit \$79:95 \$69.85

## Controlling the World with Your PC

Hightext Publishing Make your PC control stepping motors, monitor fluid levels, or switch appliances on and off! Each of the circuits in this book connects directly to the parallel printer port of your PC and comes complete with a circuit diagram and listings for control software written



in Pascal, C and BASIC. (257 pages, 1994)

Description 116943CH Controlling the World

Includes: 3.5" disk

Part No.



Price \$44.<sup>95</sup> \$39.89





Serial-to-PC Switchbox

**ATEN** 

7

310834CH

149391CH

132249CH

79177CH

134017CH

79126CH	_	10	40D1-10602	2-serial port switchbox	DB9 female (2-ports to 1PC)	6.0 x 4.8 x 2.5	1.2	\$9.95	\$8.95
183417CH	_	11	_	4-serial port switchbox	DB9 female (4-ports to 1PC)	6.1 x 4.0 x 2.2	1.3	19.95	17.95

Keyboard (5-pin DIN male); Monitor (DB15HD female);

PS/2 female for keyboard & mouse, HDDB15 female for monitor;

P/N 204062CH for PS/2 cable see below) Includes manual and power supply Keyboard (5-pin DIN male); Monitor (DB15HD female); Mouse (DB-9 male).

P/N 66173CH (DB15HD M-M cable); P/N 132345CH (DB9 F-F cable) pg 90

Mouse (DB-9 male). Recommend P/N 114913CH (5-pin M-M cable); P/N 66173CH (DB15HD M-M cable); P/N 132345CH (DB9 F-F cable) pg 90

Recommend P/N 202180CH pg 162 for power supply

Recommend P/N 114913CH (5-pin M-M cable);

HDDB15 female / 6-pin DIN female

DB9 serial female / PS/2 keyboard & mouse (recommend

#### Network-to-Server Switchboxes 180099CH — 12 40R2-01604 4-server RJ-45 switchbox

KS104

CS-114A

40H1-25602

40H1-07402

40H1-25604

4-way KVM switchbox

(4 PC's to one user)

(4 PCs to one user)

2-user switchbox

(1PC to 2 users)

4-user switchbox

(1PC to 4 users)

4-way KVM switchbox

2-way keyboard / monitor

switchbox (2 users to 1 PC)

180099CH	_	12	40R2-01604	4-server RJ-45 switchbox	4 RJ45 8P8C female ( network devices to 4 servers)	8.0 x 6.1 x 2.2	2	\$14.95	\$13.49
Fax/Modem/Telephone-to-PC Switchboxes									
79142CH		13	40R1-01602	2-PC RJ-11 switchbox	RJ-11 6P6C (fax/modem/telephone to 2PCs)	6.0 x 4.8 x 2.5	1.2	\$9.95	\$8.95

#### Parallel Printer-to-PC Switchboxes

20095CH	_	14	40D3-17602	2-port switchbox	DB25 female (2PCs to 1 printer)	6.0 x 5.8 x 2.3	1.4	\$8.95	\$7.95
155512CH	_	15	CURTIS DS3	2-port switchbox	DB25 female (2PCs to 1 printer) includes 25' DB25 M-M cable	7.2 x 4.9 x 2.5	2.3	6.49 3.79	3.44
20124CH	_	16	40D3-17604	4-port switchbox	DB25 female (4PCs to 1 printer)	6.0 x 4.0 x 2.4	1.5	14.95	13.49
177412CH	ATEN	17	AS-451P	4-port auto switchbox	DB25 female (4PCs to 1 printer)	_	0.5	6.49	5.85
289211CH		18	25F6	6-port switchbox	DB25 female (6PCs to 1 printer)	7.6 x 6.0 x 2.5	2.2	23.15	20.85

### **USB-to-PC Switchboxes**

310818CH — 19 USB-2PORT 2-way USB switchbox 1 USB-B female;	2 USB-A female 5.1 x 3.7 x 1.8	2.5	\$26.19	\$24.89
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#### Coaxial Switch Box

- · 3-way switch box, switches from a single input source to 3 outputs
- 60dB isolation shielded housing
- 75Ω input-output
- 5-900MHz UHF/VHF/FM

Description 10 228241CH Coaxial switch box ... \$4.89 \$4.43 \$4.02

#### PS/2 Cable

 Use with P/Ns 149391CH & 216063CH above



#### **ATX Vertical Full Tower Case**

· Slide-off side panel access

SALE

for power and HDD acitivity



- and power switch Internal 8Ω speaker
- 5 exposed 5.25" bays, 3 exposed 3.5" bays,
- 2 internal 3.5" bays Size: 7.5"W x 16.8"D x 24.5"H
- · Weight: 25 lbs.

Part No. Description 10 \$49.9<sup>5</sup>\$33.39 292066CH ATX full tower

## Order Anytime, **Day or Night**

7.4 x 2.9 x 1.3

10.0 x 7.0 x 3.0

7.5 x 5.3 x 2.8

6.0 x 4.5 x 2.6

7.5 x 5.3 x 2.8

112.49

17.95

19.95

21.95

85.49 179.85 29.95

7.1

2.3

102.26

162.59

15.95

17.95

19.95

Our friendly sales department will take your order 24x7x365 by phone, fax, or email.



#### isobar<sup>®</sup> TRIPP·LITE











- Up to \$50,000 Ultimate Lifetime Insurance covers Isobar and connected equipment against surge damage for life!
- Diagnostic indicators on Ultra versions alert you to improper outlet wiring, loss of AC power, and damage to protection circuitry
- IsoTel model has dual RJ11 jacks for complete modem/fax surge protection
- 4 & 6-outlet protectors: 6' cord; 8 and 12-outlet protectors: 12' cord
- UL 1449 and 1283 listed
   Lifetime warranty

#### **Surge Protectors**



Part No.	Product No.	Joules	Description	Wt. (lbs.) 1	1 10				
139686CH	IBAR12RM	750	12 outlet, 2 isolated filters	4.7 <b>\$119.9</b> 5	\$107.99				
Isobar Pr	remium Su	rge Pro	otectors						
18981CH	ISOBAR 4	2200	4 outlet, 2 isolated filters	2.4 <b>\$49.9</b> 5	\$44.95				
74544CH	ISOBAR 6	2350	6 outlet, 3 isolated filters	2.7 <b>54.9</b> 5	49.95				
Isobar Ultra Premium Surge Protector									
19001CH	ISOBAR 8U	2350	8 outlet, 4 isolated filters	3.5 <b>\$69.9</b> 5	\$62.95				

Isobar Premium 19" Rack Mount Surge Protector

## **TRIPPLITE** Standard Surge Protectors





Economical and effective spike and noise suppression with diagnostic LEDs.

168954CH: • \$5,000 Ultimate Lifetime Insurance • Up to 27,000 amp spikes • Weight: 1.2 lbs. 124337CH: • \$35,000 Ultimate Lifetime Insurance

• Up to 42,000 amp spikes • Weight: 1.6 lbs.

Part No.	Product No.	Joules 1	10
168954CH	Striker 7	480 <b>\$8.95</b>	\$8.49
124337CH	Super 7	1402 <b>17.95</b>	16.26



#### 16-Bit Active-Slot **PC Extension Interface**

Gives you three additional expansion slots.

- · Compatible with 8 or 16-bit ISA cards
- Supports: MONO/EGA/ VGA/FDC/HDC, game and most I/O
- Control card installs in your PC w/ four external slots
- Two mounting brackets to
- interface the unit via 37 and 62-pin cables Isolates system providing short circuit protection
- Can insert and remove cards while power is on
- · Can be powered off the PC or externally using 6-pin connection (P/N 78318CH & P/N 78326CH, pg 105)
- Size: 9.5"L x 6.8"W x 1.0"H
   Weight: 5.5 lbs.
- One-year warranty

System requirements: IBM PC/XT and higher comp. Blue Part No. = Limited Quantity Available

Part No.	Description 1	10
131238CH	PC slot extender unit • \$176.15	\$160.15

## LAN Tester Tool Kit For RJ11, RJ45, USB and BNC

This tester offers simple and easy operation, compatible with RJ11, RJ45, USB, and BNC wiring system; you can verify the condition and status before or after installation within two seconds.



Lower \$\$\$

The kit includes punchdown tools, crimper tool, and cable tester.

- · Shield/ground and open/short wire test
- Connected wire & crossover/wrong connection display
- Ethernet 10Base2/5, cable modem, CATV

termination value detection ➡ Blue Part No. = Limited Quantity Available

Part No. Description 10 LAN tester kit • ...... \$99.95 \$84.95 249252CH 198791CH 9V battery ...... 2.85

#### **6-Outlet Surge Protector** Metal

4500 amps, 50 joules



- 3-prong, 4' power cordSize: 12.3"L x 2.4"W x 1.3"H
- · Weight: 1.5 lbs.

Part No.	Description 1	1	10	100
20175CH	Metal pwr strip \$9.85	5	\$8.85	\$7.85

## 6-Outlet Surge Protector

· Standard 6-outlet surge suppressor

 Heavy-duty power cord . (14AWG x 3)



- · RESET/OFF switch with built-in 15A circuit breaker · Clamping voltage: 400V
- Max. surge dissipation: 900 joules
- Max. surge voltage: 6500V
- Max. spike current: 4500A
- · Weight: 0.9 lbs.

<b>216485CH</b> Surge suppressor \$6.95 \$6.25 \$5.59	Part No.	Description	1	10	100
	216485CH	Surge suppressor	\$6.95	\$6.25	\$5.59

### **Compact Surge Protector for Notebook Computers**

- · Single 3-prong receptacle outlet with telephone modem protection
- 3-prong wall mount type
- 210 joule rating
- · Surge LED indicator
- RFI noise blocker
- Size: 2.3"W x 1.3"D x 3.3"H
- Includes: 4' RJ11 cord



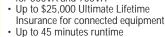


### **Battery-Backed UPS System**

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Protects your PC, fax/modem and all peripherals against all types of power problems

 Automatic system shutdown with free PowerAlert software for 500VA and 700VA



Weight: 16.0 lbs.

6-outlets, RJ11 for fax/modem protection

Part No.	Product No.	Description 1	10
185130CH	10500	500VA 6 outlets \$120 99	\$112.89

## RСЛ

#### **Integrated Wall Plate Surge Protectors**

235002CH

- \$5,000 surge equipment guarantee
- Safe-operation indicator lights
- · 2 outlets
- · Noise-filter
- · UL/CUL approved
- Size: 6.9"W x 1.0"D x 10.8"H · Weight: 0.7 lbs.





234991CH

#### 235002CH: Satellite/Cable TV protection Cable ready • 670 joules

Includes: 6-foot coaxial cable

### 234991CH: Modem/Phone/Fax protection

 Internet ready 410 joules Includes: 6-foot phone line cord



Part No.	Product No.	1	6	12
235002CH	SPC300\$	5.95	\$5.45	\$4.95
234991CH	SPT300	5.95	5.45	4.95

## Power-Strip-Saver Single Outlet



After Every Outlet is Usable

Get full use of your power strips and UPS outlets with our high quality power strip outlet saver, you can use all the outlets on your surge suppressors, UPS, and outlet strips. Just plug a bulky power adapter into this cable and free up your other outlets.

Length: 1 ft. • Cord type: SVT

25

an

Part No.	Description	1	10	100
199777CH	AC power cord (black)	\$1.69	\$1.55	\$1.39
208338CH	AC power cord (beige)	1.69	1.45	1.09

## "Y" Power Strip Saver **Double Outlet**

Get full use of your power strips and UPS outlets with the "Y" power strip saver. Plug those bulky adapters into these cables and plug the cables into the power strip. Need the extra adapter to be plugged into the power strip? Use the "Y" power strip saver to add an extra adapter.



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Part No.	Description	1	10	100
208346CH	Power strip saver	\$2.89	\$2.75	\$2.59



#### 150 & 270-Watt DC-to-AC Inverters



• Input voltage: 10-15VDC

Output voltage: 110VAC @ 60Hz

Peak power surge capable

 Overload & thermal protection Battery low shutdown
 Weight: 1.3 lbs.

277181CH: Size: 4.8"L x 2.9"W x 1.8"H 202016CH: Size: 9.3"L x 4.1"W x 2.2"H · Auto adapter and battery clips

Description 25 10 277181CH 150W auto plug ....... \$28.95 \$27.49 \$26.15 202016CH 270W auto/battery clip .. 49.99

#### 400-Watt DC-to-AC Inverter

Exclusive twin circuit design of dual high-output transformers provides 30% more power. MOSFET technology transistors with split design for cooler internal operating temperature. Outboard mounted replaceable



dual 25AMP spade-type fuses. Dual grounded standard 110VAC receptacles. Includes: 12VDC cigarette light accessory plug, heavy-duty cable clamps, and spare 25A spade fuse.

- Input: 10-15VDC
- · Max. continuous power: 400W
- · Surge capacity (peak power): 800W
- 90% max. efficiency
- · No load draw: 0.3A Size: 6.4"L x 6.1"W x 2.1"H · Weight: 2.4 lbs.

Part No.	Product No.	1	10	25
249164CH	VEC031P0B	\$57.49	\$54.65	\$51.89

#### DC-to-DC Power Converter

A high quality 1000mA regulated DC adapter with the ability to convert power from your cigarette lighter plug in 1.5V increments from 1.5V to 9.0V. You may choose from a full



218819CH

range of universal plugs (2.1mm, 2.5mm jack, 1/8" jack & 9V battery snaps) and output polarity (center + or -). Perfect for cassette players, CD players, radios, mini TV's and many other battery-run appliances.

- Two DC output cigarette lighter outlets
- · Built-in 10A mini blade fuse on plug

Part No.	Description	1	1
218819CH	DC-to-DC converter	\$11.15\$9.39	\$8.5
218801CH	10' extension cord	5.15	4.6

#### 75-Watt DC-AC Inverter

- 75 watts continuous power
- Peak surge power: 200W
- AC output voltage: 115VAC
- AC output frequency: 60Hz
- DC input voltage range: 10 15VDC
- Auto reset short circuit protection
- Overload protection/low battery alarm/low battery shutdown

Part No	Description	Size	Price
307791CH	75W inverter	4.8"L x 1.6"L x 2.4"H	\$26.95

Single AC receptacle

· Optimum efficiency: 90%

#### 150-Watt DC-AC Inverter

- 150 watts continuous power Single AC receptacle
  - · Optimum efficiency: 90% Peak surge power: 450W
- AC output volt.: 110V ±5VAC
- · AC output frequency: 60Hz
- DC input voltage range: 10 15VDC
- Auto reset short circuit protection
   Built-in thermal cooling fan
- Overload protection/low battery alarm/low battery shutdown

Part No	Description	Size	Price
307811CH	150W inverter	5.0"L x 1.9"W x 2.9"H	\$34.95

# **PC Power Supplies**

## 150 to 400-Watt PC Power Supplies







202788CH







196189CH

**Quantity SAVE** 

172822CH

				<b>_</b>				Quantit	VOAVE				
ATX Pou	er Suppl	ies							,				
Part		Product	Power	Output	Input	Input Connector	Output Conn.	1	Size	Wt.		Pricing	
Number	Mfr.	Number	(W)	(VDC/A)	(VAC @ Hz)	(Mating Connector/Cord)	(Mating Conn.)	Certification	(L" x W" x H")	(lbs.)	1	10	25
201435CH	Xtreme Power	EPA400*	400	+3.3/33, +5/45, +12/15, +5VSB/1, -5/1, -12/1	115/230 @ 47-63 switchable	3-prong AC receptacle with 6' power cord	ATX	UL/CSA/TUV/CE	5.6 x 5.9 x 3.4	5.0	\$55.95 \$409.99	\$50.36	\$45.32
155539CH	American Media	JE2033 <sup>†</sup> <b>⊙</b>	300	+3.3/14, +5/30, +12/8, +5VSB/1.5, -5/0.5, -12/0.5	115/230 @ 50-60 switchable	3-prong AC receptacle with 6' power cord	ATX-13	UL/CSA/TUV	5.9 X 5.5 X 3.4	3.7	60.45 \$69.95	54.96	49.96
155811CH	_	JE5300	300	+3.3/14, +5/25, +12/12, +5VSB/0.8, -5/0.5, -12/0.5	115/230 @ 50-60 switchable	3-prong AC receptacle with 6' power cord	ATX	UL/CSA/TUV	5.9 x 5.5 x 3.2	4.1	57.55 \$69.95	52.28	47.53
308814CH	Powmax	LP6100D	400	+3.3/28, +5/30, +12/25, -5/0.3, -12/0.8, +5VSB/2	115/230 @ 60 switchable	3-prong AC receptacle w/ 6' power cord	ATX	UL/CUL/TUV/CE	5.9 x 5.6 x 3.4	3.5	54.95	52.20	49.59
319994CH	3Y Power Technology	AP-1250-1112	250	+3.3/20; +5/25; +12/12 +5VSB/3; -5/5; -12/0.5	100-240 @ 50-60 switching	3-prong AC receptacle (P/N 38050CH, pg 180)	ATX	UL/CUL/TUV/CE	7.6 x 4.0 x 2.6	2.9	39.19	37.25	35.39
152194CH	American Media	JE2031	250	+3.3/14, +5/25, +12/10, +5VSB/1.5, -5/0.5, -12/0.5	115/230 @ 50-60 switchable	3-prong AC receptacle with 6' power cord	ATX	UL/CSA/TUV	6.0 x 5.5 x 3.4	3.5	44.95 \$49.95	40.45	36.39
312872CH	PC Power	STD-250 ATX	250	+3.3/16, +5/25, +12/13, +5VSB/2, -5/0.3, -12/0.5	115/230 @ 50-60 switchable	3-prong AC receptacle with 6' power cord	ATX	UL/CULCE	6.0 x 5.6 x 3.4	3.5	17.65	16.79	15.95
152514CH	High Power	JE8250	250	+3.3/16, +5/25, +12/10, +5VSB/1.5, -5/0.5, -12/0.5	115/230 @ 50-60 switchable	3-prong AC receptacle with 6' power cord	ATX	UL/CSA/TUV	5.5 x 5.9 x 3.4	3.3	44.95	40.45	36.39
202788CH	Enhance	SFX2015*	150	+3.3/7, +5/12, +12/5, +5VSB/0.8, -5/0.2, -12/0.3	115/240 @ 47-63 switchable	3-prong AC receptacle (P/N 38050CH, pg 180)		UL/CUL/TUV/CE	5.9 x 3.6 x 3.4	2.1	29.95	25.46	19.09
106180CH	Emacs	MPW-6150F*	150	+3 3/6 +5/10 +12/6	115/230 @ 50-60	3-prong AC recentacle	ΔΤΥ	LIL/CLIL/TLIV/CE	75 v 4 0 v 1 6	2.5	3/1 05	21 //5	27.85

#### AT Power Supplies

132185CH	APS	JE1035	300	+3.3/28, +5/30, +12/10,	110/220 @ 50-60	3-prong AC receptacle	AT	UL/CSA/TUV	5.5 x 5.9 x 3.4	4.7	\$84.99	\$77.35	\$70.29
				-5/1, -12/1	switchable	with 6' power cord							
233525CH	Sparkle	SPI-230G	230	+5/23, +12/9,	115/230 @ 50-60	3-prong AC receptacle	AT	UL/CSA/TUV	5.9 x 5.5 x 3.4	2.0	24.95	22.45	20.19
	Power			-5/0.5, -12/0.5	switchable	(P/N 38050CH, pg 180)							
172822CH	Mean Well	AA-230*	200	+5/20, +12/8,	115/230 @ 50-60	3-prong AC receptacle	AT	CSA/TUV/CE	6.0 x 4.6 x 3.4	2.6	49.95	44.96	40.46
				-5/0.5, -12/0.5	switchable	with 6' power cord							

See photo above † Pentium 4 rated **☼** Blue Part No. = Limited Quantity Available







5.55

3.19

4 99

24.25 2.35

6 15

29.95

3.79

43x26x16

5.6 x 4.7 x 1.9

7.0"L x 5.5"W

3-button serial

Mini mouse pad

PS/2 Trackball w/ USB adapter

Trackball

283223CH

305082CH

121363CH

#### 10" B&W Security Monitor w/ Audio

- EIA format
- · 9" viewable screen
- · Resolution: 700 line
- · Push down front panel for volume and power switch
- BNC jacks for audio/ video input
- Input voltage: 120VAC @ 60Hz (2-prong 5' cable)
  • Size: 9.3"W x 12"D x 9.1"H
- · Weight: 15 lbs.

Includes: Manual

Part No.	Description	1	10
253067CH	10" black & white monitor	\$109.05	\$89.95

#### 5.6" Color TFT Monitor

#### NTSC Format

- TFT color LCD display
- 224 x 640 pixel display resolution
- Built-in 1 watt speaker
- · Brightness, color and volume adjustments
- Video input: 1.0Vp-p; 75Ω
- Audio input: 2Vp-p; 2kΩ
   Size: 6.1"W x 1.2"D x 4.8"H
- · Weight: 2.6 lbs.

Includes: RCA cable, mounting stand with hardware and 12VDC @ 500mA power supply

Part No.	Description	1	10
201702CH	5.6" TFT color monitor	\$279.95	\$259.95

#### 4" TFT LCD Monitor

#### NTSC Format

- · TFT color LCD
- Resolution 234 x 383dpi
- Backlight: cold cathode fluorescent lamp
- · Power source: 12VDC @ 400mA
- 5" long lead wire with 4 position Molex-type power connector
- · Tint color and brightness adjustable
- Size: 4.1"L x 3.3"W x 0.7"H (display)
  Size: 4.7"L x 3.3"W x 1.3"H (unit)
  Weight: 0.7 lbs.

Part No.	Description	1	10
172742CH	4" color LCD monitor	\$159.95	\$149.95

#### 15" SVGA Color Monitor\*

- 0.28mm dot pitch
- Resolution: 1280 x 1024 @ 60Hz
- Digital panel controlInput voltage: 100-240VAC, 50/60Hz (auto switching)
- Power, contrast, brightness, horizontal/vertical size position, recall & trapezoid front control
- HDDB15 male connector UL/CSA/TUV approved
- Size: 14.5"W x 16"D x 14.6"H
- · Dimensional weight: 70 lbs.

Includes: Power cable, tilt and swivel base

♣ Refurbished = Backed by Jameco

Part No.	Description	1	10
153306CH	13.5" monitor viewable ❖	\$99.95	\$89.95

#### 14" SVGA Color Monitor\*

- · 13" diagonal view
- 0.28mm dot pitch
- HDDB15 male connector
- · Power, contrast, brightness, horizontal/vertical position, recall & trapezoid knobs
- Resolution: 1152 x 864 @ 60Hz
- Input voltage: 100-240VAC @ 50-60Hz
   Size: 14.2"W x 14.6"D x 13.5"H
- · Dimensional weight: 40 lbs.

Includes: Power cable, tilt and swivel base

Refurbished = Backed by Jameco

Part No.	Description	1	10
174537CH	13" monitor viewable 💠	\$69.99	\$64.99

#### AverKey Pro PC-to-TV **Converter Box**

- Converts VGA video or Macintosh® 640 x 480 to standard NTSC
- Built-in flicker filter
- Resolution: 800 x 600
- · TV brightness control
- · Compatible w/ Microsoft® Windows® 3.0 and higher
- Weight: 2.2 lbs. Two-year warranty

System requirements: VGA-based PC, DOS 3.0 or higher, 640kB RAM or larger

Includes: PC-to-TV converter, adapter, cables & manual Part No. Description 167193CH Video signal pro ...... \$89.95

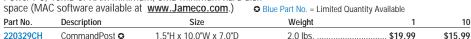
## **FOCUS**

## Pro-Video Editing Controller at Breakthrough Price

CommandPost is a pro-quality video-editing controller for your favorite video/multimedia applications at a new breakthrough special purchase price. Working with your favorite video/ multimedia applications has never been easier or faster. Now the most popular controls such as jog wheel, fader, etc., from professional non-linear editors, DVEs and DDRs are brought to your desktop. Includes a free copy of VideoWave Version 4.0 video editing software plus templates for most popular video and graphics applications, including Videonics Effetto Pronto, Apple iMovie, Apple Final Cut Pro, Adobe Premiere, Adobe After Effects, and Digital Origin EditDV.

- · Fader arm, 15 tactile push-button switches
- · Supports standard or user-defined keysets
- Easy assignment of control sequences and keyset names

System requirements: USB 1.1 compliant PC: Windows® 98 or 2000, Pentium® 133 or higher, 5MB RAM minimum, 8MB minimum hard disk space. MAC: O.S. 8.6 or higher, Power PC, 10MB of RAM minimum, 5MB minimum hard disk







#### **XBOB-NC Video Text Module**

XBOB integrates Decade's thirdgeneration OSD technology into a convenient plug & play format. The command set is nearly identical to that of our popular BOB-3 modules (pg 205), and XBOB includes all of the optional circuitry described in the BOB-3 Application Guide. XBOB lets your PC display up to 680 characters on standard video monitors and TV sets. With 63 userdefinable character patterns, XBOB supports pseudo-graphics and multiple languages. XBOB generates video on-board, or automatically genlocks to your video source and superimposes characters over the image. Printable characters and commands control XBOB through a fast RS-232 data link, much like a simple serial printer.

- Higher display density; 40x17 characters (680 max.)
- 254 ROM character patterns plus 63 user-definable RAM characters • Character size control
- Horizontal (1 line) and vertical smooth scrolling (up to 16 lines)
- Faster & more reliable host communication
- · Stand-alone operation, for simple source ID or fixed reticle applications
- Improved automatic video mode control

Part No.	Description 1	10
283768CH	Description 1  XBOB video text module \$189.95	\$179.99
237243CH	9VDC power supply 3.79	3.45
283776CH	Serial cable 9.95	8.95



#### **BOB-3 Video Text Module**



BOB-3 is Decade's third-generation low-cost video text overlay module. BOB-3 lets your microcontroller or PC display up to 680 characters on standard video monitors and TV sets. With 63 user-definable characters, BOB-3 supports pseudo-graphics and multiple languages. BOB-3 generates video on-board, or automatically genlocks to your video source and superimposes characters over the image. Printable characters and commands control BOB-3 through a fast RS-232 style data link, much like a simple serial printer. BOB-3 is compatible with most microcontroller chips and modules, including the BASIC Stamp.

- Higher display density; 40x17 characters (680 max.)
  Faster & more reliable host communication
- Software-controlled digital outputs (6)
- · Improved automatic video mode control
- Stand-alone operation, for simple source ID or fixed · Character size control reticle applications

 254 ROM character patterns plus 63 user-definable RAM characters • Horizontal (1 line) and vertical smooth scrolling (up to 16 lines)

#### 162051CH:

- Displays up to 308 characters (11 lines of 28)
- 12 x 18 pixel character pattern

Part No.	Description	1	10
283733CH	BOB-3 video text module	\$99.95	\$94.95
162051CH	BOB-2 video text module	69.95	62.95

#### 14" Color CCTV Monitor

- · NTSC/PAL switchable
- · Operating frequency: EÍA - 15750Hz/60Hz; CCIR: 15625Hz/60Hz
- Input voltage: 100 - 240VAC @ 50/60Hz
- · Input signal: CVBS - 1Vp-p (typical); Y/C separation - 1Vp-p
- Input impedance: hi/lo impedance (switchable)
  Video in/out channel (BNC): 2 BNC connectors
- (CVBS in/out); 2 4-pin mini DIN (YC in / YC out)
- · Àudio in/out channel: 2 inputs / 2 outputs
- · Front panel control: power on/off; contrast, brightness, color, tint, sharpness, volume (AV / YC) switches
- · CRT: 14" diagonal
- CRT dot pitch: 0.63mm
- Resolution: >420 lines
- · Power consumption: 70W
- Size: 13.8"W x 14.4"D x 12.6"H Weight: 31.9 lbs.

Part No.	Product No.	1	10
320119CH	15-MC14A	\$277.39	\$249.65

## **Black & White** CCD Camera with 6" Monitor

#### Camera: EIA Format

- 512(H) x 492(V)
- 1/3" CCD
- image sensor
- · 380 TV line res.
- 6 IR LED light for view in the dark application
- 15.734kHz horizontal synch. frequency
- 2:1 interlace scanning system
- 1/100,000 second electronic shutter
- 3.6mm lens with F2.0 S/N ratio: 48dB
- Video output: 1Vp-p,  $75\Omega$
- Audio output: 2Vp-p, 50Ω maximum
   0 lux at 2M
- BNC connector for video & RCA connector for audio
- Power supply: 12-15V @ 130mA
   FOV: 92°
   Size: 2.2"W x 2.8"D x 2.1"H

#### Includes: Camera bracket

#### Monitor: EIA Format

- · 6" 2-channel flat screen monochrome monitor
- · Vertical hold, brightness and contrast adjustment knobs at rear of monitor
- Size: 6.7"W x 7.2"D x 5.2"H Weight: 7.7 lbs.

Includes: 20M audio/video cable, manual and 15V @ 1A center positive power supply

Part No.	Description	1	10
170616CH	Camera w/ monitor	\$169.95	\$149.95

#### Mini Dome Color Camera

#### NTSC Format

- · Perfect for ceilings
- 1/4" CCD image sensor
- 512(H) x 492(V)
- · 330 horizontal line res.
- · S/N ratio: 46dB
- 15.73kHz horizontal synch. frequency
- · Scanning system: 2:1 interlace
- Up to 1/96,000 second electronic shutter
- 3.6mm lens with F2.0 Video output: 1Vp-p,  $75\Omega$
- Power supply: 12VDC @ 160mA
- (recommend P/N 162996CH, pg 174)
   2 lux/F2.0 FOV: 92° Size: 3.5"Dia. x 2.3"H

Includes: Mounting hardware

Part No.	Description	1	10
171037CH	Mini-dome camera	\$145.95	\$129.95

#### Color Camera

- 1/3" Panasonic CCD image sensor
- Image size: 4.82mm (H) x 3.64mm (V)
- Furnished léns: 8mm
- · More than 380TV lines horizontal resolution
- 15.734kHz synch. freq.
- · Scanning system: 2:1 interlace
- S/N ratio: more than 46dB
- · BNC connector for video • FOV: 42.6°
- Video output: 1Vp-p; 75Ω • 1.0 lux / F1.4
- Size: 4.0"L x 2.2"W x 2.0"H Weight: 0.9 lbs.
- 512(H) x 492(V) NTSC signal format
   Auto iris: DC driver / video driver switchable

Requires: 12VDC @ 140mA power supply (recommend P/N 162996CH, pg 174)

Part No.	Description	1	10
171248CH	Color CCD camera	\$209.95	\$189.95

### Night Vision Infrared **Lighted Camera**

#### EIA Format

- · Adjustable camera lens
- Auto iris controlled
- · Built-in voltage regulator
- Horizontal synch. frequency: 15.734kHz
- 6 infrared LEDs for night vision
- · Scanning system: 2:1 interlace
- Video output: 1Vp-p; 75Ω • Lens: 3.6mm
- 380 TV line resolution Audio output: 2Vp-p max.
- FOV: 92 • 0.1 lux with F2.0
- Matching conn.: RG59 BNC (P/N 71271CH, pg 117)
- Size: 2.9"L x 2.0"W x 2.0"H
   Weight: 1.2 lbs.

Includes: 12VDC @ 500mA power supply and wall mounting bracket

Part No.	Description	1	10
150404CH	Infrared lighted camera !	\$119.95	\$109.95

#### **Black and White Camera** with 8mm Lens

- 1/3" CCD image sensor
- · Horizontal res: 420TV lines
- · Min. illumination: 0.1 lux
- Horizontal freq.: 15.734kHz
  510(H) x 492(V) EIA
- signal format
- Vertical freq.: 60HzClock freq.: 19.0699MHz
- Scanning system: 2:1 interlace S/N ratio: 48dB
- Electronic shutter: 1/100,000 sec.
- Auto iris lens: DC drive / AES / video drive
- Video out.: 1Vp-p,  $75\Omega$  Audio out.: 2Vp-p max.,  $50\Omega$
- Backlight compensation and auto gain control
- Power requirements: 12VDC@100mA; 24VAC
- Size: 4.5"L x 2.0"W x 2.0"H · Weight: 0.8 lbs.

10 **245041CH** Black & white CCD camera .... **\$99.95** \$89.95

## www.Jameco.com

Our enhanced website offers more products. Find it quickly and order it easily!

#### Mini Enclosed Color NTSC Camera

- 1/4" CCD Sensor
- · 350 horizontal TV lines
- 1 lux/F2.0
- Electronic shutter: up to 1/120,000 sec.
- NTSC system w/ 512(H) x 492(V)
- Scanning system: 2:1 interlace
- Signal to noise ratio: 48dB
- Lens: 3.7mm/F2.0
- Video output: 1Vp-p, 75Ω
   FOV: 92°
- Size: (enclosure) 1.3"L x 1.1"W x 0.9"D
- · Weight: 0.3 lbs. Two-year warranty Requires: 9VDC - 12VDC @ 500mA power supply

(recommend P/N 100853CH, pg 175)

Includes: BNC/Power cable and mounting hardware

Part No. Description 215423CH Mini enclosed camera ...... \$129.95 \$119.95

#### Color Interline Camera

#### Water Resistant with Adjustable Mounting Bracket

- · EIA format
- 1/3" CMOS
- image sensor EIA format:
- 512(H) x 492(V)
- 330 horizontal line resolution
- 2:1 scanning interlace system
- 5 lux sensitivity
- Video output: 1V p-p; 75Ω
- 6mm lens/F2.0
- · S/N ratio: 40dB • FOV: 530
- Electronic shutter: 1/60 1/1,200 sec.
- Connectors: 1 standard RCA female jack for video, and in-line 2.1mm power-plug connector for power supply
- Size: 2.6"L x 0.9"Dia.

Includes: Adjustable mounting bracket, instruction sheet and 9V @ 100mA power supply

Part No.	Description	1	10
185017CH	Color camera	\$99.95	\$89.95

#### SONY® Color CCD Camera

#### Sony Chipset

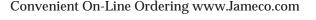
- · 1/4" Sony super
- HAD CCD sensor NTSC system with
- 510(H) x 492(V) Furnished mini
- lens: 3.6mm · Minimum illumina-
- tion: 0.5 lux @ F2.0 · Signal to noise
- ratio: >48dB
- 330 TV lines · Supports these functions: auto electronic shutter (AES), auto iris control (AIC), auto gain control (AGC), auto white balance (AWB), back light compensation (BLC) and flicker less (FL)
- Video drive iris control; high/low switchable auto gain control; on/off backlight compensation
- Internal, negative synchronous system
- Video output: 1Vp-p; 75Ω

Requires: 12VDC @ 120mA power supply (recommend P/N 100095CH, pg 175)

Includes: Power/signal cable & mounting hardware Description Part No.

213436CH Enclosed color camera ...... \$179.95 \$161.95





#### WaterProof Tube Style IR Color Camera

#### NTSC Format

- · For indoor and outdoor use
- 1/4" CCD image sensor
- 512(H) x 492(V)
- 420 horizontal line resolution
- · 59.94Hz vertical frequency
- · Scanning system: 2:1 interlace
- 0 lux w/ 20 IR LEDs
- · Internal synchronization
- S/N ratio: >48dB
- · Up to 1/100,00 sec. electronic shutter
- · Auto white balance and gain control
- 880 ~ 940nM infrared wavelength
- Video output: 1Vp-p, 75Ω
- Size: 2.1"Dia x 3.8"L 4.3mm lens with F1.8

Requires: 12VDC @ 160mA power supply (recommend P/N 162996CH, pg 174)

Includes: Mounting hardware

Part No.	Product No.	1	10
319901CH	15-CM25WM	\$189.05	\$184.29

#### 2.4GHz Wireless Color **Dome Camera**

#### NTSC Format

- ¼" CCD image sensor
- 512(H) x 492(V)
- 380 hórizontal line resolution
- 1 lux with F2.0
- · Scanning system: 2:1 interlace
- S/N ratio: 48dB
- · 60Hz vertical frequency
- Up to 1/120,000 second electronic shutter
- · 3.6mm lens with F2.0
- Video output: 1Vp-p, 75Ω
- Power supply: 12VDC @ 300mA

Size: 3.4"Dia x 2.3"H

Includes: 12VDC @ 300mA power supply and mounting hardware

Part No.	Product No.	1	10
319855CH	15-2400CTD	\$212.25	\$191.15

• FOV: 92

#### 2.4GHz Wireless Weatherproof Color Camera w/ PIR

#### NTSC format

- · For indoor and outdoor use
- 1/4" CCD image sensor
- 380 horizontal line resolution
- 3 lux with F2.0: 0.5lux with F1.2
- Video output: 1Vp-p, 75Ω
- Audio output: 2Vp-p max
- Transmitter output power: 10mW
  Output impedance: 50Ω typical
- Pulse counter w/ automatic reset
- Size: 4.2"W x 5.0"D x 4.8"H

Includes: 12VDC @ 500mA power supply and mounting hardware

Part No.	Product No.	1	10
319871CH	15-2400CTH	\$236.55	\$212.89

#### Mini Wireless Color Camera

Now you can place a color video camera with sound almost anywhere! This super-small  $(1" \times 3/4" \text{ by } 7/8")$ 1/4 ounce, 3 Lux wireless camera and receiver combo



179872CH

179864CH

289852CH

192858CH

192866CH

delivers sharp, full-motion video images at 380 lines of resolution. With its 150-foot (unobstructed) range, light weight, and 9-volt battery power, you can now add video capability to a world of hobby applications.

Part No.	Description	1	10
249025CH	Wireless color camera	\$89.95	\$80.95

#### 2.4GHz Wireless Audio/Video Transmitter

- · Frequency range: 2413MHz to 2470MHz
- Impedance:  $50\Omega$
- Output power: 1 watt Video input: 1 Vp-p
- Audio input: 2 Vp-p
- Size: 2.4"L x 1.9"W x 1.4"H

Includes: 12VDC @ 1A wall adapter, RCA patch cable, antenna and mounting hardware

#### 179864CH:

· For use with 2.4GHz cameras, transmitters and receivers

· Gain: 3dB; unidirectional

Part No.	Description 1	10
289852CH	Wireless audio/video tran \$199.95	\$179.95
179864CH	2.4GHz SMA RF antenna 15.15	13.65
179872CH	Wireless extension cable 10.99	9.89

#### 4-Channel 2.4GHz Wireless Audio/Video Receiver and 10mW Transmitter

#### Make your camera wireless up to 492 feet!

- Transmission range: 492' (150M outdoors); 164' (50M indoors)
- 4-channel switch selectable on transmitter
- Output power
- (transmitter): 10mW Output impédance:
- 50Ω typical Video input: 1Vp-p composite
- · Audio input: 2Vp-p max. RCA jacks for audio
- and video connectors

#### Receiver:

MEW

- · Non-volatile memory protects system set-up from power loss
- · Video loss detection and freeze channel
- Mute and alarm trigger port
- Size: (transmitter) 4.5"L x 3.2"W x 1.0"H
- Size: (receiver) 6.5"L x 5.5"W x 1.4"H
- · Weight: 1.8 lbs.

Includes: RCA cable, 12VDC@500mA adapter, RCA to F connector adapter (receiver unit only)

Part No.	Description 1	10
192858CH	4-channel transmitter \$94.45	\$85.05
192866CH	4-channel receiver 124.95	112.95

## 4-Channel 2.4GHz Wireless **Audio/Video Transmitter System**

#### CCIR, NTSC, PAL, EIA Format

- ISM Band: 2.413 – 2.470GHz
- Four selectable transmitter and receiver channels
- Antenna mode: dipole (omnidirectional) Impedance: 50Ω typical
- Video input: 1 Vp-p composite
- Audio input: 2Vp-p max. · Weight: 3.2 lbs.

Includes: Two 9VDC @ 300mA with 1.3mm x 3.5mm center positive plug, and two 2.5mm male to RCA patch cables

Part No.	Description	1	10
265308CH	4-ch. wireless system	\$149.95	\$134.95

### **SONY®**

#### **Black & White Low-Light Camera**

#### Sony Chipset

- Signal to noise ratio: >48dB
- Requires 12V power source (not included)
- 150931CH 6" wires with 4-pin 15093 Molex-type keyed connector
- EIA system 537(H) x 505(V)
- Temp. tolerance: -5°C to 40°C · Lens: 3.6mm
- Composite output with 420 line resolution Shutter speed: 1/60 - 1/1000
- Video output: 1.0Vpp composite video/75Ω
- Size: 1.3"L x 1.3"W x 1.0"H One-year warranty Part No. Description 10 150931CH Camera board ...... \$71.79 \$64.79 \$58.15 159071CH 8mm lens 38.6° ...... 17.95

17.10

16.25

#### **Black & White Camera**

#### EIA Format

- 1/3" CCD image sensor510(H) x 492(V)
- · Horizontal resolution: >350 lines
- Scanning system: 2:1 interlace Sensitivity: 0.7 lux/F2.0
- Video output: 1Vp-p, composite video  $75\Omega$ Power supply: 12VDC (recommend
- P/N 162996CH, pg 174)
- Size: 1.3"L x 1.3"W x 1.2"H · S/N ratio: 46dB
- Power consumption: 110mA FOV: 92°
- Electronic shutter: 1/125,000 sec. (linear)

Part No.	Description 1	10
171029CH	Camera board \$44.95	\$40.45

#### Color CMOS Camera Board

#### NTSC Format

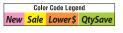
- 1/3" image sensor
- 5.0 CMOS lux • FOV: 92°
- 3.6mm lens/F2.0 330 TV lines
- · Low power consumption · Automatic exposure, gain and

• Size: 1.0"L x 0.9"W x 1.1"H white balance Part No. Description

10 171011CH Camera board ..... \$77.65 \$69.89

## We're Listening to What You Need

Our goal is to provide you with more of what you want. Let us know how we can better serve your electronics needs. Please send requests to info@Jameco.com.



#### **Digital Color Quad Processor**

A fully digital color quad processor with 2 x 2 zoom for VCR playback, built-in ÔSĎ time



NEW

generator (Day/ Time/Title on-screen), auto video signal detection and adjustment on each camera, and monitor output quad/full screen/ seguential switcher.

· NTSC format

· 60 fields / sec. display rate

4 video input channel

 Video output: 1Vp-p, 75Ω (selectable at full screen or quad switched)

· 4 alarm inputs, 1 alarm output (NO/NC)

1024 x 512 digital memory

1 to 99 seconds switching interval

6 BNC connectors at rear panel

• Size: 8.5"W x 1.8"H x 8.0"D

· Weight: 2.6 lbs.

Includes: 9VDC @ 800mA power supply, DB25 male to stripped and tinned cable, and manual

Part No.	Product No.	1	10
319935CH	15-QC42	\$242.25	\$218.05

#### 4-Channel Digital Video **Multiplex Recorder**

Record and monitor you security surveillance system with this 4channel digital video multiplex



recorder. Connect 4 cameras to this recorder, attach a monitor for viewing features, and connect your PC through the RS-232 interface to operate the recorder. Attach a RJ-45 cable for network connection, and install 1 or 2 hard disk drives to the recorder.

- · TCP/IP with client software web interface
- · Conventional VCR back up, remote back-up using TCP/IP, or internal back-up
- RS-232C, RS-485, 4-alarm input, 1 relay output
- · Pan, tilt, zoom, and focus camera control
- Plug and play

#### Video I/F

- 4-channel input, 1Vp-p,  $75\Omega$  unbalanced BNC type connectors
- S/N ratio: >48dB 480 TV lines
- 4 output (BNC/SVHS/VGA type)

#### • 16.7 million colors

#### Monitoring Method

- · Split screen (full or quad display), zoon, PIP,
- Screen quality: full screen 720(H) x 480(V) active pixels; 1/4 screen - 360(H) x 240(V) active pixels

#### Recording/Playback Function

30 frames/sec. maximum

JPEG compressed picture

· Quad screen recording or field switcher method

Real time/time lapse/event record mode

· Search/still track play

Includes: remote control, 12VDC @ 4.16A power supply, manual and software in CD-ROM

Part No.	Product No	1	10
320127CH	15-DVR04SAE-LAN	\$664.05	\$597.65

Need additional BNC or video cables? We have them. See pages 96-97 & 117.



This new high-speed PCI video capture card comes with 4-channel video and 1-channel audio input that provides superb digital images from multiple cameras and remote surveillance. Add up to 4 cards per



system controlling up to 16 cameras.

- · Input signal: 4 video, 1 audio synchronized mono (with sound card) Time/date stamp
- · Display: 1/4/9/16/full screen
- Display and record: 60 frames per second (per card)
- Record mode: event/continuous/scheduled
- Enhanced MPEG4 format • Size: 4.9"L x 3.6"H · Color adjust: adjustable light, contrast, hue, saturation
- Resolution: 160 x 120 up to 640 x 240
- · Multitask: monitoring, recording, PTZ control, remote, back-up · Motion detection: 16 zone x multi area
- for each camera
- Storage: HDD, VDRAM, CD-RW, DAT. ZIP
- · Support internet monitoring: client software, explorer, or windows media player

Includes: CD-ROM software and drivers

Minimum system requirements: Pentium® III/ 800MHz, 128 MRAM, 32M AGP video card or above (recommend Pentium® 4/1.8GHz, 64M AGP video card)

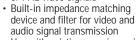
Part No.	Product No.	1	4
262019CH	EDV-XVIEW4	\$237.55	\$225.95

### Audio/Video Adapters

#### CAT 5 UTP

 Converts impedance of video/audio signals to  $100\Omega$  for transmission over CAT 5 UTP cable





Use with existing premises wiring and wall jacks for easy and cost effective installation

Video transmission distance: 1000' color/ 2000' B/W

210471CH/311124CH: Signal pair: video (BNC), CAT pair 1 (RJ45)

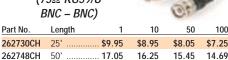
220880CH: Signal pairs: video (BNC), CAT pair 4 (RJ45); audio 1 (RCA); CAT pair 3 (RJ45); audio 2 (RCA), CAT pair 2 (RJ45)

Includes: 1 RCA to BNC adapter and 2 mounting screws

Part No.	Connector Type	1	10
210471CH	BNC/RJ45 \$.	28.45	\$25.60
311124CH	BNC/RJ45	19.35	18.35
220880CH	BNC/RCA/RJ45	42.95	38.66

## Cable Assembly (75Ω RG59/U

262764CH 100' ...... 30.39



28.89

27.45

25.99

For additional BNC Cables see pages 97 & 117.

### **ATEN** SVGA Monitor Splitters

Duplicate a video signal from one source to monitors up to 210 feet away.



133866CH

· Suitable for SVGA, VGA & multisync monitors 176866CH: 2-channel

 1 HDDB15 male connector from PC to box; 2 HDDB15 female connectors from box to monitors

 Size: 6.6"L 3.3"W x 1.1"H · Weight: 1.4 lbs. 133866CH: 4-channel

· Slide switch for video signal gain control

• One-year warranty Daisy chainable

Size: 8.8"L x 6.0"W x 1.9"H
 Weight: 3.6 lbs.

Includes: Power adapter and manual

Part No.	Description	1	10
176866CH	2-ch. monitor splitter .	\$49.95	\$44.95
133866CH	4-ch. monitor splitter	59.95	53.95

#### Video RF Modulator w/ S-VHS Input

Designed to convert separate audio and video signals from various video components.



• RF outputs: 3 or 4

channel switch selectable

RF output impedance:  $75\Omega$ 

Video input impedance: 75 or  $1k\Omega$ 

• Audio input impedance: 13 +/-3k $\Omega$ 

TV to antenna insertion loss 50 - 806MHz: -2dB

Video carrier output level: 69dBuV

Part No.	Product No.	Description	Price
319062CH	203-101	Video RF Modulator	\$14.95

#### Audio Video Selectors

#### 319151CH:

210471CH

 Manual 4x1 audio/ video selector with S-VHS inputs and integrated 3/4 channel



RF modulator. Designed to convert separate audio and video signals into a single VHF-TV signal viewable on most TV sets

· Auto audio/video selector with S-VHS inputs. Automatically redirects signal to display active signal source. 12VDC@200mA power supply included

Part No.	Product No.	Size (WxDxH)	Price
319151CH	200-470	9.4" x 5.0" x 1.9"	\$34.95
319142CH	200-465	9.7" x 5.9" x 2.1"	54.95

#### SMK RF Modulator

- · Output frequency: NTSC Ch. 3/4, switch selectable
- 12VDC RF modulator
- Operating voltage: 12V@ 50mA max.
  - Video modulation: 1.0V p-p
- RF output impedance:  $75\dot{\Omega}$ (F type connector) Audio FM deviation: 1.4V p-p
- PC connections: solder tab connectors Size: 1.7"L x 1.7"W x 0.7"H

· Manufacturer No.: WMN2144-01 Description

5 141639CH RF modulator .. \$2.29 \$2.09





### Mount your video camera almost anywhere

As steady as a tripod, the Window Camera Mount lets you anchor that video camera to any glass surface at any height.



Mount your video or CCTV camera on any window or other non-porous surface, and capture what you've never been able to before. This heavy-duty



Mounts easily to vour car window

Camera not

metal mounting bracket attaches securely to any glass surface with a strong lever-activated 3.25" neoprene suction cup. Mount your camera onto the tripod-style screw. Adjust to any position, and you're ready to shoot hands-free. It's perfect for temporary surveillance of your business or home. For cameras up to 3 lbs.

Part No.	Description	1	5
222746CH	CCTV camera window mount	\$33.19	\$29.87

### Mini Indoor Pan & Tilt Mechanism

#### Continuous Pan

- Automatic scanning: 0° 355° angular travel; pan clockwise and counter-clockwise
- Manual tilt: 0° 90°
- Pan speed: 5°/sec.
- · Maximum load: 4.4 lbs.
- · Power consumption: 1 watt
- Size: 2.5"Dia. x 2.4"H
- · Warranty: 2 years continuous use · Weight: 0.4 lbs.

included Includes: 24V @ 150mA power supply, wall mount bracket and mounting hardware

Part No.	Description	1	10
215407CH	Mini pan/tilt	\$49.95	\$44.95

#### **Outdoor Metal Camera Enclosures**

- · Plate glass: 3mm thick
- Outdoor use
- 170931CH: without heater
- · Clear window area: 2.5"W x 2.3"H
- · Max. camera size:
- 4.0"L x 2.4"W x 2.4"H Size: 16.0"L x 4.9"W x 4.9"H
- · Weight: 2.8 lbs. 170940CH: w/ heater (keeps optics from fogging)
- · Clear window area: 3.5"W x 3.1"H
- Max. camera size: 6.5"L x 3.2"W x 3.2"H
- Size: 11.0"L x 3.6"W x 3.6"H
   Weight: 6.8 lbs.

Part No.	Description	1	10
170931CH	Camera housing\$28	.45	\$26.55
170940CH	Camera housing w/ heater 62	.95	59.89

#### **Indoor Metal Camera Enclosure**

- · Clear window area: 2.2"W x 1.8"H
- · Maximum camera size: 7.1"L x 2.6"W x 2.4"H
- Overall size: 11.7"L x 3.1"W x 2.7"H



		. 5		
Part No.	Description		1	10
310691CH	Camera housing	\$2	7.49	\$26.15

#### **Camera Mounting Bracket**

- · Aluminum construction (white coated)
- Maximum load: 6.5lbs.
- · Over all height: 5.1"
- · Base diameter: 1.8"
- · 360 degree tilt swivel 120 degree tilt angle
- Base mounted w/ 3 screws (included)

Part No.	Description	1	10
311191CH	15-B009	\$6.65	\$6.19

#### **Mounting Brackets for Enclosed Camera**

- · Material: plastic
- · Base mounted w/ 3 screws
- Swivel angle: 360°
- Tilt angle: 90
- For use w/ enclosed cameras (P/N 150404CH, pg 206)

171002CH: • Color: ivory 170002CH. Color: white



MEW

170982CH:	• Color: write			
Part No.	Max Load (lbs.)	Ht. (in.)	1	10
171002CH	11 lbs.	6.4	\$4.69	\$4.08
170982CH	6.6 lbs	2.0	5.49	4.94

#### **Heavy Duty Camera** Mounting Bracket

- · Steel construction (white coated)
- Maximum load: 22 lbs. • Overall length: 11.2"
- Base size: 3.8"L x 33.3"W
- 360° swivel angle, 90° tilt angle

Includes: Base mounted w/ 3 screws

Part No.	Product No.	1	10
320151CH	15-B006	\$16.65	\$14.95

#### Monitor/TV Wall Mount Bracket

- 95° swivel
- · Assembly required
- Requires unit base to be mounted securely to wall stud
- Wall mount screws not included



#### Mini Alarm Siren

- Sound pressure: 108dB
- Output frequency: 3000Hz
- Rated: 2-12VDC @ 300mA
- Adjustable mounting plate
- 16<sup>f</sup> color coded connector wires, tinned
- Size: 2.8"Dia. x 2.5"L

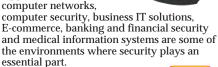


## Save Big! Special Values!

New Lower Prices = Orange Sale Priced Items = Yellow Exceptional Quantity Discounts = Green

### **EyeD Hamster USB** Fingerprint Scanner

The EyeD Hamster fingerprint recognition tool for computers focuses on both security and convenience. This unit, which can be connected to the USB port of a computer and separate from the mouse, provides a simple, convenient and reliable security system instead of using passwords which are hard to remember or can be stolen. Applications such as



 Assures computer security through fingerprint recognition



- Provide fast matching · USB interface
- Compact in size, takes up less than 3" of desk space Includes: Installation manual and CD-ROM drivers

System requirements: Windows® 95/98/NT4.0/2000/ME/XP, available USB port

Part No.	Description	1	5
262713CH	EyeD Hamster	\$115.95	\$104.35

### **EyeD USB OptiMouse with Biometric Recognition Software**

With security and convenience of its finger print recognition module, this is the world's smartest mouse. No need to memorize passwordsthe simple yet unique touch of your finger securely protects your PC, network, and the Internet all at once.

- Surface enhanced irregular reflection optical design
- Fingerprint extraction and verification technology
- Applications: PC and network security, Enterprise IT solution, secure files and folders within your PC, E-commerce

System requirements: Windows® 95/95/NT/2000/ME/XP, available USB port

Description 262625CH EyeD USB OptiMouse \$115.95 \$110.19

## **Lower Your** Cost - Spend More!



the cost of a security solution, be sure to look beyond the price tag of the components. When installing video equipment, consider the cost of both the equipment and the installation. Wireless cameras and monitors may seem costly compared to their hardwired brethren, but in a new installation, the job may be completed for less cost using the more expensive equipment.

> Practical Practices Money Saving Tips for the Engineer

vellemen

Velleman DVM850BL • 2000 count

• 6 functions NEW



P/N 355207CH

\$16.75



• 2000 count

6 functions

Extremely low cost

P/N 220812CH \$9.79



Mastech M830B

- 2000 count
- 6 functions
- Extremely low cost



P/N 220855CH \$9.95

#### JAMECO\*

- Jameco JE110
- 2000 count
- 6 functions Pocket size with 100µV resolution



P/N 119212CH \$19.95

## JAMECO BenchPro

### BP-1562

- 2000 count • 6 functions



P/N 318781CH \$9.95

**Basic Measurement Functions** 

## MASTECH

P/N 220759CH

\$13.95

- Mastech MAS830L Mastech MAS838 • 2000 count
  - 2000 count 8 functions
- Continuity test SALE

7 functions



P/N 220741CH \$19.95

MASTECH

• 2000 count

• 8 functions

AC current

P/N 220821CH

\$28.95

Test Functions

## Mastech M3900

- BP-1206 • 2000 count
- 8 functions Auto-zero

JAMECO BenchPro





P/N 27116CH \$39.95

Special Functions



	_																	_	4	<u> </u>						
Jameco Part No.	Manufacturer No.		No. of Functions	Resolution (max DC)	DC Voltage Ranges (V)	AC Voltage Ranges (V)	DC Current Ranges (A)	AC Current Ranges (A)	Resistance Ranges (Ω)	Capacitance Ranges (F)	Inductance Ranges (H)		Frequency Ranges (Hz)	Temperati	ure Range ∘c	Diode Logic		Transistor h <sub>FE</sub> Test	Autorange	Analog Bargraph	RS-232 PC Interface	True RMS	Size (H"xW"xD")	Jameco Part No.	Prici	ng
				(IIIax DC)				Ranges (A)		Ranges (i )	Kanges (ii)		Ranges (112)	C	'	1631 1631	1631	TIFE TEST	Autorange	baryrapii	IIIIeiiace	KIVIS				
355207CH	Velleman DVM850BL	2000	6	! -	200m - 100	200 - 600	200μ - 10	_	200 - 2M	_	-		_	_	_	V	~	V					5.4 x 2.7 x 1.2	355207CH	\$16.75	\$15.92
220812CH	Mastech M300	2000	6	1mV	2 - 500	200 - 500	200mA	_	2k - 2M	_	_		_	_	_	~	V						4.7 x 2.7 x 0.8	220812CH	9.79	8.85
220855CH	Mastech M830B	2000	6	100µV	200m - 1000	200 - 750	200μ - 10	_	200 - 2M	_	_	<b>←</b>	_	_	_	~		V					5.4 x 2.7 x 1.2	220855CH	9.95	9.45
119212CH	Jameco JE110	2000	6	100μV	200m - 1000	200 - 750	200μ - 10	_	200 - 2M	_	_		_	_	_	~		~					4.8 x 2.6 x 1.0	119212CH	19.95	17.95
318781CH	BenchPro BP-1562	2000	. 6	100µV	200m - 600	200 - 750	200μ - 10	_	200 - 2M	_	_		_	_	_	V		V					5.4 x 2.7 x 1.2	318781CH	9.95	9.45
220759CH	Mastech MAS830L	2000	7	100μV	200m - 600	200 - 600	200μ - 10	_	200 - 2M	_	_		_	_	_	~	V	V					5.7 x 3.0 x 1.4	220759CH	13.95	13.24
220741CH	Mastech MAS838	2000	8	100µV	200m - 600	200 - 600	2m - 10	_	200 - 2M	_	_		_	-20 to 1000	_	V	V	V					5.7 x 3.0 x 1.4	220741CH \$4	2.95	15.96
220821CH	Mastech M3900	2000	8	100µV	200m - 1000	200m - 700	20μ - 10	20μ - 10	200 - 20M	_	_		_	_	_	~	V	~					6.8 x 3.4 x 1.3	220821CH	28.95	27.49
27116CH	BenchPro BP-1206	2000	! 8	100µV	200m - 1000	200m - 700	20µ - 10	20μ - 10	200 - 20M	_	_		_	_	_	· ·	V	\ \ \					6.8 x 3.5 x 1.4	27116CH	39.95	35.95
197958CH	Extech MV110	2000	. 8	100μV	200m - 1000	200m - 750	20μ - 10	20µ - 10	200 - 200M	_	_	<b>←</b>	_	_	_	~	V	V					7.3 x 3.5 x 1.3	197958CH	36.95	
27115CH	Metex M3800	2000		100μV	200m - 1000	200m - 700	20µ - 20	20µ - 20	200 - 20M	_	_		_	_	_	V	V						6.8 x 3.5 x 1.4	27115CH	39.95	
220775CH	Mastech MY64	2000	11	100µV	200m - 1000	200m - 700	2m - 10	2m - 10	200 - 200M	2n - 20µ	_		2k - 20k	-20 to 1000	_	V	1	1					7.4 x 3.6 x 1.3	220775CH	38.79	34.91
177480CH	AEEC 2890	2000	11	100μV	200m - 1000	2 - 700	2m - 10	200m - 10	200 - 20M	2n - 20µ	_		20k	-20 to 1000	_	~	V	-					8.0 x 4.0 x 2.0	177480CH	52.49	
182035CH	Fluke 73-III	3200	9	100μV	320m - 600	320m - 600	320m - 10	320m - 10	320 - 32M		_		_	_	_					~			6.6 x 3.0 x 1.1	182035CH		150.99
220767CH	Mastech MY68	3260	1 12	100μV	326m - 1000	3.26 - 700	326µ - 10	326µ - 10	326 - 32.6M	326n - 32.6µ	_		32.6k - 150k	_	_	V	4	V	4	· /			7.4 x 3.6 x 1.3	220767CH	35.95	
216514CH	Metex ME-31	4000		100μV	400m - 1000	400m - 750	4m - 20	4m - 20	400 - 4M	- 32.0μ	_		52.0K - 150K	_	_	./	1		./	./	./		7.3 x 3.3 x 1.5	216514CH	56.95	54.15
211650CH	Extech MN26	4000	11	100μV	400m - 600	400m - 600		400µ - 10	400 - 40M	4n - 200µ			10 - 10M	0 to 760	0 to 1400					•			4.8 x 2.4 x 1.6	211650CH	39.95	37.95
			1 11				400μ - 10			'	_					· .										
117373CH	BenchPro BP-1949	4000	1 11	100µV	400m - 400	4 - 400	400μ - 10	400µ - 10	400 - 4M	50n - 100μ	_		5 - 50k	-20 to 1000	_		V		V		, , , , , , , , , , , , , , , , , , ,		7.7 x 3.6 x 1.6	117373CH	99.95	
137462CH	BenchPro BP-1737	4000	11	100μV	400m - 400	4 - 400	400μ - 10	400μ - 10	400 - 4M	50n - 100μ	_		5 - 50k	-20 to 1000	_	· ·	<b>V</b>						7.7 x 3.6 x 1.6	137462CH		113.95
221997CH	Metex M3270D	4000	12	100μV	400m - 1000	4 - 750	400μ - 20	400μ - 20	400 - 40M	4n - 400μ	_		4k - 4M	_	_	V	V	V	V	~			7.1 x 3.3 x 1.3	221997CH	79.95	75.95
					MMs continue	ed on pages 21	2 – 213.										DM	Ms continu	ed on pages	212 - 21	3.					

## **METEX**®

## Metex M3800

- 2000 count 8 functions
- Auto-zero



P/N 27115CH \$39.95

210



## Mastech MY64

- 2000 count
- 11 functions Temperature
- Frequency



P/N 220775CH \$38.79

#### **AEEC AEEC 2890**

- 2000 count • 11 functions
- Temperature
- Frequency Tiltable display



P/N 177480CH \$52.49

## FLUKE.

- Fluke 73-III · 3200 count
- 9 functions Autorange
- Frequency
- Analog bargraph



P/N 182035CH \$158.95

# MASTECH

## Mastech MY68

- 3260 count
- Autorange



P/N 220767CH \$35.95

## **METEX**<sup>®</sup>

- 12 functions
- Analog bargraph



P/N 216514CH \$56.95

## **EXTECH**

#### Metex ME-31 Extech MN26 • 4000 count

- 4000 count • 10 functions/RS232 • 11 functions
- Autorange Autorange Analog bargraph Temperature



Frequency

P/N 211650CH \$39.95

JAMECO BenchPro

#### BP-1949 • 4000 count

- 12 functions/RS-232
- Autorange Temperature



P/N 117373CH

\$99.95

JAMECO BenchPro

• 12 functions/RS-232

BP-1737

• 4000 count

Autorange

Temperature

Frequency

EXCLUSIVE P/N 137462CH \$119.95

Extech MV110 • 2000 count

EXTECH

- 8 functions
- Tiltable display



P/N 197958CH \$36.95

#### **METEX**® Metex M3270D

- 4000 count • 12 functions Autorange
- Frequency





P/N 221997CH





vellemen

Velleman DVM850BL • 2000 count

• 6 functions NEW



P/N 355207CH

\$16.75



• 2000 count

6 functions

Extremely low cost

P/N 220812CH \$9.79



Mastech M830B

- 2000 count
- 6 functions
- Extremely low cost



P/N 220855CH \$9.95

#### JAMECO\*

- Jameco JE110
- 2000 count
- 6 functions Pocket size with 100µV resolution



P/N 119212CH \$19.95

## JAMECO BenchPro

### BP-1562

- 2000 count • 6 functions



P/N 318781CH \$9.95

**Basic Measurement Functions** 

## MASTECH

P/N 220759CH

\$13.95

- Mastech MAS830L Mastech MAS838 • 2000 count
  - 2000 count 8 functions
- Continuity test SALE

7 functions



P/N 220741CH \$19.95

MASTECH

• 2000 count

• 8 functions

AC current

P/N 220821CH

\$28.95

Test Functions

## Mastech M3900

- BP-1206 • 2000 count
- 8 functions Auto-zero

JAMECO BenchPro





P/N 27116CH \$39.95

Special Functions



	_																	_	4	<u> </u>						
Jameco Part No.	Manufacturer No.		No. of Functions	Resolution (max DC)	DC Voltage Ranges (V)	AC Voltage Ranges (V)	DC Current Ranges (A)	AC Current Ranges (A)	Resistance Ranges (Ω)	Capacitance Ranges (F)	Inductance Ranges (H)		Frequency Ranges (Hz)	Temperati	ure Range ∘c	Diode Logic		Transistor h <sub>FE</sub> Test	Autorange	Analog Bargraph	RS-232 PC Interface	True RMS	Size (H"xW"xD")	Jameco Part No.	Prici	ng
				(IIIax DC)				Ranges (A)		Ranges (i )	Kanges (ii)		Ranges (112)	C	'	1631 1631	1631	TIFE TEST	Autorange	baryrapii	IIIIeiiace	KIVIS				
355207CH	Velleman DVM850BL	2000	6	! -	200m - 100	200 - 600	200μ - 10	_	200 - 2M	_	-		_	_	_	V	~	V					5.4 x 2.7 x 1.2	355207CH	\$16.75	\$15.92
220812CH	Mastech M300	2000	6	1mV	2 - 500	200 - 500	200mA	_	2k - 2M	_	_		_	_	_	~	V						4.7 x 2.7 x 0.8	220812CH	9.79	8.85
220855CH	Mastech M830B	2000	6	100µV	200m - 1000	200 - 750	200μ - 10	_	200 - 2M	_	_	<b>←</b>	_	_	_	~		V					5.4 x 2.7 x 1.2	220855CH	9.95	9.45
119212CH	Jameco JE110	2000	6	100μV	200m - 1000	200 - 750	200μ - 10	_	200 - 2M	_	_		_	_	_	~		~					4.8 x 2.6 x 1.0	119212CH	19.95	17.95
318781CH	BenchPro BP-1562	2000	. 6	100µV	200m - 600	200 - 750	200μ - 10	_	200 - 2M	_	_		_	_	_	V		V					5.4 x 2.7 x 1.2	318781CH	9.95	9.45
220759CH	Mastech MAS830L	2000	7	100μV	200m - 600	200 - 600	200μ - 10	_	200 - 2M	_	_		_	_	_	~	V	V					5.7 x 3.0 x 1.4	220759CH	13.95	13.24
220741CH	Mastech MAS838	2000	8	100µV	200m - 600	200 - 600	2m - 10	_	200 - 2M	_	_		_	-20 to 1000	_	V	V	V					5.7 x 3.0 x 1.4	220741CH \$4	2.95	15.96
220821CH	Mastech M3900	2000	8	100µV	200m - 1000	200m - 700	20μ - 10	20μ - 10	200 - 20M	_	_		_	_	_	~	V	~					6.8 x 3.4 x 1.3	220821CH	28.95	27.49
27116CH	BenchPro BP-1206	2000	! 8	100µV	200m - 1000	200m - 700	20µ - 10	20μ - 10	200 - 20M	_	_		_	_	_	· ·	V	\ \ \					6.8 x 3.5 x 1.4	27116CH	39.95	35.95
197958CH	Extech MV110	2000	. 8	100μV	200m - 1000	200m - 750	20μ - 10	20µ - 10	200 - 200M	_	_	<b>←</b>	_	_	_	~	V	V					7.3 x 3.5 x 1.3	197958CH	36.95	
27115CH	Metex M3800	2000		100μV	200m - 1000	200m - 700	20μ - 20	20µ - 20	200 - 20M	_	_		_	_	_	V	V						6.8 x 3.5 x 1.4	27115CH	39.95	
220775CH	Mastech MY64	2000	11	100µV	200m - 1000	200m - 700	2m - 10	2m - 10	200 - 200M	2n - 20µ	_		2k - 20k	-20 to 1000	_	V	1	1					7.4 x 3.6 x 1.3	220775CH	38.79	34.91
177480CH	AEEC 2890	2000	11	100μV	200m - 1000	2 - 700	2m - 10	200m - 10	200 - 20M	2n - 20µ	_		20k	-20 to 1000	_	~	V	-					8.0 x 4.0 x 2.0	177480CH	52.49	
182035CH	Fluke 73-III	3200	9	100μV	320m - 600	320m - 600	320m - 10	320m - 10	320 - 32M		_		_	_	_					~			6.6 x 3.0 x 1.1	182035CH		150.99
220767CH	Mastech MY68	3260	1 12	100μV	326m - 1000	3.26 - 700	326µ - 10	326µ - 10	326 - 32.6M	326n - 32.6µ	_		32.6k - 150k	_	_	V	4	V	4	· /			7.4 x 3.6 x 1.3	220767CH	35.95	
216514CH	Metex ME-31	4000		100μV	400m - 1000	400m - 750	4m - 20	4m - 20	400 - 4M	- 32.0μ	_		52.0K - 150K	_	_	./	1		./	./	./		7.3 x 3.3 x 1.5	216514CH	56.95	54.15
211650CH	Extech MN26	4000	11	100μV	400m - 600	400m - 600		400µ - 10	400 - 40M	4n - 200µ			10 - 10M	0 to 760	0 to 1400					•			4.8 x 2.4 x 1.6	211650CH	39.95	37.95
			1 11				400μ - 10			'	_					· .										
117373CH	BenchPro BP-1949	4000	1 11	100µV	400m - 400	4 - 400	400μ - 10	400µ - 10	400 - 4M	50n - 100µ	_		5 - 50k	-20 to 1000	_		V		V		, , , , , , , , , , , , , , , , , , ,		7.7 x 3.6 x 1.6	117373CH	99.95	
137462CH	BenchPro BP-1737	4000	11	100μV	400m - 400	4 - 400	400μ - 10	400μ - 10	400 - 4M	50n - 100μ	_		5 - 50k	-20 to 1000	_	· ·	<b>V</b>						7.7 x 3.6 x 1.6	137462CH		113.95
221997CH	Metex M3270D	4000	12	100μV	400m - 1000	4 - 750	400μ - 20	400μ - 20	400 - 40M	4n - 400μ	_		4k - 4M	_	_	V	V	V	V	~			7.1 x 3.3 x 1.3	221997CH	79.95	75.95
					MMs continue	ed on pages 21	2 – 213.										DM	Ms continu	ed on pages	212 - 21	3.					

## **METEX**®

## Metex M3800

- 2000 count 8 functions
- Auto-zero



P/N 27115CH \$39.95

210



## Mastech MY64

- 2000 count
- 11 functions Temperature
- Frequency



P/N 220775CH \$38.79

#### **AEEC AEEC 2890**

- 2000 count • 11 functions
- Temperature
- Frequency Tiltable display



P/N 177480CH \$52.49

## FLUKE.

- Fluke 73-III · 3200 count
- 9 functions Autorange
- Frequency
- Analog bargraph



P/N 182035CH \$158.95

# MASTECH

## Mastech MY68

- 3260 count
- Autorange



P/N 220767CH \$35.95

## **METEX**<sup>®</sup>

- 12 functions
- Analog bargraph



P/N 216514CH \$56.95

## **EXTECH**

#### Metex ME-31 Extech MN26 • 4000 count

- 4000 count • 10 functions/RS232 • 11 functions
- Autorange Autorange Analog bargraph Temperature



Frequency

P/N 211650CH \$39.95

JAMECO BenchPro

#### BP-1949 • 4000 count

- 12 functions/RS-232
- Autorange Temperature



P/N 117373CH

\$99.95

JAMECO BenchPro

• 12 functions/RS-232

BP-1737

• 4000 count

Autorange

Temperature

Frequency

EXCLUSIVE P/N 137462CH \$119.95

Extech MV110 • 2000 count

EXTECH

- 8 functions
- Tiltable display



P/N 197958CH \$36.95

#### **METEX**® Metex M3270D

- 4000 count • 12 functions Autorange
- Frequency





P/N 221997CH





 Autorange Temperature





Sizes show

are for relative

P/N 117372CH \$104.95



Metex M3890D 4000 count

• 15 functions/USB Autorange

 Temperature Frequency



P/N 215589CH \$99.95

### METEX®

Metex M3860D

 4000 count • 16 functions/RS232

Autorange

Temperature



P/N 137461CH \$149.95

#### FLUKE

#### Fluke 110

• 6000 count

• 10 functions Autorange

Min/Max/Avg

Fluke 111 • 6000 count

 Autorange Current

#### Fluke 112

• 6000 count • 12 functions

• 12 functions

 Autorange Backlit display

Current

\$108.95

P/N 190967CH P/N 190975CH P/N 185527CH

\$138.95

**Basic Measurement Functions** 

\$148.95

## FLUKE.

## Fluke 175

6000 count

• 12 functions





• 6000 count

Autorange

Frequency

• 12 functions

P/N 192655CH P/N 192663CH \$188.95 \$208.95

#### FLLIKE Fluke 177

- Fluke 179 • 6000 count
- 13 functions Autorange

FLUKE.

Temperature





P/N 185535CH \$218.95

**Test Functions** 

WAVETEK' Meterman

### Wavetek/MM 37XR

- 10,000 count
- 14 functions
- Inductance





P/N 222527CH \$129.49

**Special Functions** 

WAVETEK' Meterman

• 10,000 count

Autorange

Frequency

Temperature

Wavetek/MM 38XR

• 14 functions/RS232

Mastech MY65

- 20,000 count
- 8 functions
- Capacitance





P/N 222543CH \$149.49



P/N 136590CH \$73.49

DMMs continued from pages 210 - 211.

## DMMs continued from pages 210 - 211

Jameco Part No.	Manufacturer No.		No. of Functions	Resolution (max DC)	DC Voltage Ranges (V)	AC Voltage Ranges (V)	DC Current Ranges (A)	AC Current Ranges (A)	Resistance Ranges (Ω)	Capacitance Ranges (F)	Inductance Ranges (H)		Frequency Ranges (Hz)	Temperat °C	ture Range °F	Diode Test	Logic Test	Continuity Test	Transistor hre Test	Autorange	Analog Bargraph	RS-232 PC Interface	True RMS	Size (H"xW"xD")	Jameco Part No.	Pricin	1g 5
117372CH	Metex M3850D	4000	14	100μV	400m - 1000	400m - 750	400µ - 20	400µ - 20	400 - 40M	4n - 400μ	_		4k - 40M	-40 to 1200	_	~		~	~	~	~	~		7.2 x 3.3 x 1.8	117372CH	\$104.95	\$99.69
215589CH	Metex M3890D	4000	15	100μV	400m - 1000	4 - 750	400µ - 20	400µ - 20	400 - 40M	4n - 200μ	_		4k - 4M	-40 to 1200	-40 to 2192	~	V	~	~	~	~	~		7.8 x 3.5 x 1.7	215589CH	99.95	94.99
137461CH	Metex M3860D	4000	16	100μV	400m - 1000	400m - 750	40m - 20	40m - 20	400 - 40M	4n - 400μ	40m - 400m	<b>←</b>	4k - 40M	-40 to 1200	_		V	~	~	~	~	~	~	7.2 x 3.3 x 1.8	137461CH	149.95	134.99
190967CH	Fluke 110	6000	10	1mV	6 - 600	6 - 600	_	_	600 - 40M	1000n - 10,000μ	_		99.99 - 50k	_	_	~		~		V	~		~	11.8 x 7.0 x 3.0	190967CH	108.95	103.49
190975CH	Fluke 111	6000	12	1mV	6 - 600	6 - 600	6 - 10	10	600 - 40M	1000n - 10,000μ	_		99.99 - 50k	_	_	~		~		~	~		~	11.8 x 7.0 x 3.0	190975CH	138.95	131.99
185527CH	Fluke 112	6000	12	1mV	6 - 600	6 - 600	6 - 10	10	600 - 40M	1000n - 10,000μ	_		99.99 - 50k	_	_	~		~		~	~		~	11.8 x 7.0 x 3.0	185527CH	148.95	141.95
192655CH	Fluke 175*	6000	12	100μV	600m - 1000	600m - 1000	60m - 10	60m - 10	600 - 50M	1000n - 9999µ	_		99.99 - 99.99k	_	_	~		~		~	~		~	7.3 x 3.5 x 1.7	192655CH	188.95	179.49
192663CH	Fluke 177*	6000	12	100μV	600m - 1000	600m - 1000	60m - 10	60m - 10	600 - 50M	1000n - 9999µ		<b>←</b>	99.99 - 99.99k	_	_	~		~		~	~		~	7.3 x 3.5 x 1.7	192663CH	208.95	198.55
185535CH	Fluke 179*	6000	13	100μV	600m - 1000	600m - 1000	60m - 10	60m - 10	600 - 50M	1000n - 9999µ	_		99.99 - 99.99k	-40 to 400	-40 to 752	V		~		~	~		~	7.3 x 3.5 x 1.7	185535CH	218.95	207.99
222527CH	Wavetek/MM 37XR	10,000	14	100μV	1000m - 1000	1000m - 750	100m - 10	100m - 10	1000 - 40M	40n - 400μ	4m - 40		100 - 10M	_	_	V	~	~		~	~		~	7.8 x 3.6 x 2.4	222527CH	129.49	122.99
222543CH	Wavetek/MM 38XR	10,000	14	100µV	1000m - 1000	1000m - 750	100m - 10	100m- 10	1000 - 40M	40n - 400μ	_		100 - 10M	-20 to 1300	-4 to 2372	V		~		~	~	~	~	7.8 x 3.6 x 2.4	222543CH	149.49	141.99
136590CH	Mastech MY65	20,000	8	10µV	200m - 1000	2 - 700	2m - 10	2m - 10	200 - 200M	200p - 20μ	_		_	_	_			~	V					7.4 x 3.6 x 1.2	136590CH	73.49	57.25
318764CH	BenchPro BP-1415	20,000	8	10μV	200m - 1000	2 - 700	2m - 20	2m - 20	200 - 200M	2000p - 20μ	_	<b>←</b>	20k	_	_	~		~	V					7.4 x 3.6 x 1.2	318764CH	73.49	66.15
144872CH	Metex M4640A	20,000	12	10μV	200m - 1000	200m - 750	2m - 20	2m - 20	200 - 20M	20n - 200μ	_		20k - 2M	_	_	V		~	V		~	~		7.5 x 3.3 x 1.5	144872CH	132.95	126.35
222375CH	Fluke 187*	50,000	11	1μV	50m - 1000V	50m - 1000	500m - 10	500m - 10	500 - 500M	1n - 50μ	_		500 - 999.99k	-200 to 1350	-328 to 2462	~				~	~		~	8.0 x 3.9 x 2.0	222375CH	379.99	361.55
182043CH	Fluke 189*	50,000	13	1µV	50m - 1000V	50m - 1000	500m - 10	500m - 10	500 - 500M	1n - 50μ	_		500 - 999.99k	-200 to 1350	-328 to 2462	~		~		~	V		~	8.0 x 3.9 x 2.0	182043CH	398.95	378.95
214308CH	Fluke 80BK temperature p	probe for Flu	ike 175/177	/179/187/189	(Jameco P/Ns 192	2655CH /192663CH	H /185535CH /2223	375CH /182043CH	respectively)				F	luke 80BK tempera	ature probe for Flu	ıke 175/1	77/179/1	87/189 (Jar	neco P/Ns 19	2655CH /192	663CH /1855	35CH /22237	5CH /1820	43CH respectively)	214308CH	\$19.95	\$18.95

<sup>\*</sup> Temperature probe available — see bottom of chart

## JAMECO BenchPro

- BP-1415 · 20.000 count
- 8 functions Capacitance





P/N 318764CH \$73.49

212



#### Metex M4640A 20,000 count • 12 functions

- 4 displays
- Frequency



P/N 144872CH \$132.95



\$379.99

## FLUKE.

## Fluke 187

- 50,000 count
- 11 functions Autorange
- Temperature Frequency



P/N 222375CH

#### FLUKE Fluke 189

- - 13 functions Data logging
  - Temperature Frequency

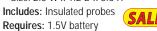


• 50,000 count

P/N 182043CH \$398.95

## **Pocket Analog Multimeter**

- DC/AC voltage ranges: 0 - 500V
- DC current ranges: 0 250mA • Resistance ranges:  $0 - 1k\Omega$
- Size: 2.3"W x 1.2"D x 3.6"H Includes: Insulated probes







## **High Voltage AC/DC Test Probe**

- · Maximum voltages: DC: 40kV, AC: 40kV peak, 28kVrms Accuracy: DC: ±1.5%, AC: ±5%
- 10MΩ meter input impedance required Input/output impedance:
- $1,000M\Omega/1.1M\Omega$ Cable length: 39" · Probe length: 14"

 Weight: 0.8 lbs. Part No.



## **EXTECH**

#### **Passive-Component Digital LCR Meter**

14834

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- 4½-digit backlit LCD display · Measures L, C, and R with
- secondary parameter Q, D or R; both are displayed Inductance ranges:
- 2000.0uH to 2000.0H Capacitance ranges: 2000.0pF to 2000.0µF
- Resistance ranges:  $20.000\Omega$  to  $20.000M\Omega$ · Selectable parallel or series
- equivalent circuit Set HI/LO limits, absolute or percentage
- · Bidirectional RS-232 port with optional software Max./Min./Avg. recording with auto power off
- Accuracy of 0.7% for L  $\Breve{\&}$  C, 0.5% for R Test frequencies of 120Hz and 1kHz
- Dissipation Factor (D) reading: 0 to 0.9999 · Quality (Q) reading: 0 to 9999

• Size: 3.6"W x 2.1"D x 7.6"H • Weight: 0.8 lbs. Includes: Test leads, alligator clips, 9V battery & holster

Part No.	Description 1	10
198678CH	LCR Meter \$178.95	\$160.95
189237CH	9VDC @ 300mA adapter 4.25	3.25

## **Digital LCR Meter**

- 31/2-digit display (0.5" digit height) • Inductance ranges: 200µH – 200H Capacitance ranges:
- 200pF 2000µF Resistance ranges:
- $2m\Omega 20M\Omega$
- Dissipation factor measurement • Size: 3.3"W x 1.4"D x 6.7"H
- · Weight: 1.1 lbs. One-year warranty

**Includes:** Test leads and 9V battery Description 10 127538CH LCR meter . .. \$149.95 \$134.95 \$121.46



## 15A AC Line Separator for **AC Current Clamp Meters**

**Quantity SAVE** 

• Max. overload: 250VAC@15A · X1 and X10 clamp areas Socket compatible with US

& European connectors Convenient 0.1" dia. tip test points for neutral/earth/line

Part No.	Description	1	10	25
162325	CH 3-prong US-type plug	\$11.95	\$10.16	\$7.62

## Mini DC/AC 2000-Count Clamp Meter/Multimeter

- Bright 1/2" LCD • DATA HOLD
- 0.5" digit height Compatible with P/N 162325CH,
- below Size: 7.1"L x 1.9"W x 1.4"H

200Ω ±1.2% + 1d \*Frequency Response 40-400Hz
Zero Adjust External kni · Weight: 0.9 lbs. Requires: 9V battery

not included (P/N 151095CH, pg 183) Includes: Test leads, manual and case Part No. Description

## 115756CH Mini DC/AC clamp meter .... \$119.95 \$107.95 50mV/50A Current Shunt

- · Current range: 0 to 50A
- Accuracy: 0.8% ±0.2mV Output ratio: 1mV/1A
- Max. current: 100A







20A, 200A ±1.2% + 5d

200A ±1.2% + 5d

±1.0% + 2d

500V

FLUKE

Fluke 110

• 6000 count

• 10 functions

Min/Max/Avg

Autorange

Autorange



P/N 117372CH

\$104.95



Sizes show

### **METEX**®

- Metex M3890D 4000 count
- 15 functions/USB
- Autorange Temperature

P/N 215589CH

\$99.95

Frequency



P/N 137461CH \$149.95

#### **METEX**<sup>®</sup>

#### Metex M3860D

- · 4000 count
- 16 functions/RS232 Autorange
- Temperature

## Fluke 111

- 6000 count
- 12 functions Autorange

#### Current Fluke 112

- 6000 count • 12 functions
- Autorange Backlit display

Current



P/N 190967CH P/N 190975CH P/N 185527CH \$138.95 \$148.95 \$108.95

## FLUKE.

- Fluke 175
- 6000 count • 12 functions
- Autorange Frequency



P/N 192655CH \$188.95

## FLLIKE

- Fluke 177
- 6000 count • 12 functions
- Autorange Frequency



P/N 192663CH \$208.95

## FLUKE

#### Fluke 179

- 6000 count • 13 functions
- Autorange Temperature
- Frequency



P/N 185535CH \$218.95

**Test Functions** 

WAVETEK' Meterman

### Wavetek/MM 37XR

- 10,000 count
- 14 functions
- Inductance
- Autorange dB display



P/N 222527CH \$129.49

**Special Functions** 

WAVETEK' Meterman

Autorange

Frequency

Temperature

• 14 functions/RS232

- Wavetek/MM 38XR Mastech MY65 • 10,000 count
  - 20,000 count
    - 8 functions
  - Capacitance





P/N 222543CH \$149.49



\$73.49

DMMs continued from pages 210 - 211.

## DMMs continued from pages 210 - 211

Jameco Part No.	Manufacturer No.	Display Count	No. of Functions	Resolution (max DC)	DC Voltage Ranges (V)	AC Voltage Ranges (V)	DC Current Ranges (A)	AC Current Ranges (A)	Resistance Ranges (Ω)	Capacitance Ranges (F)	Inductance Ranges (H)		Frequency Ranges (Hz)	Temperat °C	ure Range °F	Diode Log Test Te	ic Continu	Transistor hre Test	Autorange	Analog Bargraph	RS-232 PC Interface	True RMS	Size (H"xW"xD")	Jameco Part No.	Pricing 5
117372CH	Metex M3850D	4000	14	100μV	400m - 1000	400m - 750	400µ - 20	400µ - 20	400 - 40M	4n - 400µ	_		4k - 40M	-40 to 1200	_	~	~	~	~	~	~		7.2 x 3.3 x 1.8	117372CH	\$104.95 \$99.69
215589CH	Metex M3890D	4000	15	100μV	400m - 1000	4 - 750	400µ - 20	400μ - 20	400 - 40M	4n - 200μ	_		4k - 4M	-40 to 1200	-40 to 2192	V V	V	~	~	~	~		7.8 x 3.5 x 1.7	215589CH	99.95 94.99
137461CH	Metex M3860D	4000	16	100μV	400m - 1000	400m - 750	40m - 20	40m - 20	400 - 40M	4n - 400μ	40m - 400m	<b>←</b>	4k - 40M	-40 to 1200	_	· ·	V	~	~	~	~	~	7.2 x 3.3 x 1.8	137461CH	149.95 134.99
190967CH	Fluke 110	6000	10	1mV	6 - 600	6 - 600	_	_	600 - 40M	1000n - 10,000μ	_		99.99 - 50k	_	_	~	V		~	~		~	11.8 x 7.0 x 3.0	190967CH	108.95 103.49
190975CH	Fluke 111	6000	12	1mV	6 - 600	6 - 600	6 - 10	10	600 - 40M	1000n - 10,000μ	_		99.99 - 50k	_	_	~	V		~	~		~	11.8 x 7.0 x 3.0	190975CH	138.95 131.99
185527CH	Fluke 112	6000	12	1mV	6 - 600	6 - 600	6 - 10	10	600 - 40M	1000n - 10,000μ	_		99.99 - 50k	_	_	V	V		~	~		~	11.8 x 7.0 x 3.0	185527CH	148.95 141.95
192655CH	Fluke 175*	6000	12	100μV	600m - 1000	600m - 1000	60m - 10	60m - 10	600 - 50M	1000n - 9999µ	_		99.99 - 99.99k	_	_	~	V		~	~		~	7.3 x 3.5 x 1.7	192655CH	188.95 179.49
192663CH	Fluke 177*	6000	12	100μV	600m - 1000	600m - 1000	60m - 10	60m - 10	600 - 50M	1000n - 9999µ	_	<b>←</b>	99.99 - 99.99k	_	_	~	V		~	~		~	7.3 x 3.5 x 1.7	192663CH	208.95 198.55
185535CH	Fluke 179*	6000	13	100μV	600m - 1000	600m - 1000	60m - 10	60m - 10	600 - 50M	1000n - 9999µ	_		99.99 - 99.99k	-40 to 400	-40 to 752	~	V		~	~		~	7.3 x 3.5 x 1.7	185535CH	218.95 207.99
222527CH	Wavetek/MM 37XR	10,000	14	100μV	1000m - 1000	1000m - 750	100m - 10	100m - 10	1000 - 40M	40n - 400μ	4m - 40		100 - 10M	_	_	V V	~		~	~		~	7.8 x 3.6 x 2.4	222527CH	129.49 122.99
222543CH	Wavetek/MM 38XR	10,000	14	100μV	1000m - 1000	1000m - 750	100m - 10	100m- 10	1000 - 40M	40n - 400μ	_		100 - 10M	-20 to 1300	-4 to 2372	V	V		V	~	V	~	7.8 x 3.6 x 2.4	222543CH	149.49 141.99
136590CH	Mastech MY65	20,000	8	10μV	200m - 1000	2 - 700	2m - 10	2m - 10	200 - 200M	200p - 20μ	_		_	_	_		V	V					7.4 x 3.6 x 1.2	136590CH	73.49 57.25
318764CH	BenchPro BP-1415	20,000	8	10μV	200m - 1000	2 - 700	2m - 20	2m - 20	200 - 200M	2000p - 20µ	_	<b>←</b>	20k	_	_	~	V	~					7.4 x 3.6 x 1.2	318764CH	73.49 66.15
144872CH	Metex M4640A	20,000	12	10μV	200m - 1000	200m - 750	2m - 20	2m - 20	200 - 20M	20n - 200μ	_		20k - 2M	_	_	~	V	~		~	~		7.5 x 3.3 x 1.5	144872CH	132.95 126.35
222375CH	Fluke 187*	50,000	11	1µV	50m - 1000V	50m - 1000	500m - 10	500m - 10	500 - 500M	1n - 50μ	_		500 - 999.99k	-200 to 1350	-328 to 2462	~			~	~		~	8.0 x 3.9 x 2.0	222375CH	379.99 361.55
182043CH	Fluke 189*	50,000	13	1μV	50m - 1000V	50m - 1000	500m - 10	500m - 10	500 - 500M	1n - 50μ	_		500 - 999.99k	-200 to 1350	-328 to 2462	V	V		V	V		~	8.0 x 3.9 x 2.0	182043CH	398.95 378.95
214308CH	Fluke 80BK temperature p	probe for Flu	ike 175/177	/179/187/189 (	(Jameco P/Ns 192	655CH /192663CH	I /185535CH /222	375CH /182043CH	respectively)				Flo	uke 80BK tempera	ature probe for Flu	ıke 175/177/1	79/187/189	Jameco P/Ns 1	192655CH /1926	63CH /1855	35CH /222375	5CH /1820	43CH respectively)	214308CH	\$19.95 \$18.95

\* Temperature probe available — see bottom of chart

## JAMECO BenchPro

- BP-1415 · 20.000 count
- 8 functions Capacitance





P/N 318764CH \$73.49

212

## **METEX**®

#### Metex M4640A 20,000 count

- 12 functions
- 4 displays Frequency



P/N 144872CH \$132.95

- - - Frequency



P/N 222375CH \$379.99

## FLUKE.

## Fluke 187

- 50,000 count • 11 functions
- Autorange
- Temperature



## FLUKE

## Fluke 189

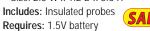
- 50,000 count • 13 functions
- Data logging
- Temperature Frequency



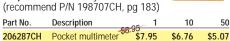
P/N 182043CH \$398.95

## **Pocket Analog Multimeter**

- · DC/AC voltage ranges: 0 - 500V
- DC current ranges: 0 250mA
- Resistance ranges:  $0 1k\Omega$ • Size: 2.3"W x 1.2"D x 3.6"H Includes: Insulated probes







### **High Voltage AC/DC Test Probe** · Maximum voltages: DC: 40kV,

- AC: 40kV peak, 28kVrms Accuracy: DC: ±1.5%, AC: ±5% • 10MΩ meter input
- impedance required Input/output impedance:  $1,000M\Omega/1.1M\Omega$
- Cable length: 39" Probe length: 14" · Weight: 0.8 lbs.

Part No.	Description 1	1 10
132290CH	High volt. test probe \$79.95	5 \$72.95

## **EXTECH**

## **Digital LCR Meter**

- 4½-digit backlit LCD display · Measures L, C, and R with secondary parameter Q, D or R; both are displayed
- Inductance ranges: 2000.0uH to 2000.0H
- Capacitance ranges: 2000.0pF to 2000.0μF Resistance ranges:
- $20.000\Omega$  to  $20.000M\Omega$ · Selectable parallel or series equivalent circuit
- · Set HI/LO limits, absolute or percentage · Bidirectional RS-232 port with optional software
- Max./Min./Avg. recording with auto power off - Accuracy of 0.7% for L  $\Breve{\&}$  C, 0.5% for R Test frequencies of 120Hz and 1kHz

**189237CH** 9VDC @ 300mA adapter

 Dissipation Factor (D) reading: 0 to 0.9999 · Quality (Q) reading: 0 to 9999 Size: 3.6"W x 2.1"D x 7.6"H
 Weight: 0.8 lbs.

Includes:	Test leads, a	Illigator clips, 9V battery	& holster
Part No.	Description	1	10
198678CH	LCR Meter	\$178.95	\$160.95

#### **Passive-Component Digital LCR Meter** • 31/2-digit display (0.5" digit height)

14834

...

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- Inductance ranges: 200µH 200H Capacitance ranges: 200pF - 2000µF
- Resistance ranges:  $2m\Omega - 20M\Omega$ Dissipation factor measurement
- Size: 3.3"W x 1.4"D x 6.7"H · Weight: 1.1 lbs.

One-year warranty

127538CH LCR meter

Includes: Test leads and 9V battery Description 10



3.25

. 4.25

## 15A AC Line Separator for **AC Current Clamp Meters**

• Max. overload: 250VAC@15A · X1 and X10 clamp areas

 Socket compatible with US & European connectors ster Convenient 0.1" dia. tip

> test points for neutral/earth/line Part No. Description 10 162325CH 3-prong US-type plug \$11.95 \$10.16 (\$7.62)

#### Mini DC/AC 2000-Count Clamp Meter/Multimeter • Bright 1/2" LCD • DATA HOLD

 0.5" digit height Compatible with P/N 162325CH, below Size: 7.1"L x

1.9"W x 1.4"H 200Ω ±1.2% + 1d \*Frequency Response 40-400Hz
Zero Adjust External kni · Weight: 0.9 lbs. Requires: 9V battery

not included (P/N 151095CH, pg 183) Includes: Test leads, manual and case Part No. Description

115756CH Mini DC/AC clamp meter .... \$119.95 \$107.95

## 50mV/50A Current Shunt

- · Current range: 0 to 50A
- Accuracy: 0.8% ±0.2mV Output ratio: 1mV/1A
- Max. current: 100A

25





.. \$149.95 \$134.95 \$121.46

20A, 200A ±1.2% + 5d

200A ±1.2% + 5d

±1.0% + 2d

500V

Protek

🤧 EZ DIGITAL

**EXTECH** 

197991CH

197982CH

#### 4000-Count True-RMS Benchtop Multimeter with RS-232

- 9 functions, 32 ranges
- 3¾-digit backlit LCD display with bargraph
- Auto/manual ranging · True RMS AC volts and amps
- Resolution: 100µV maximum
- DC voltage ranges:
- 400mV 1000V (0.3% accuracy)
- AC voltage ranges: 4V 750V
- DC/AC current ranges: 4mA 10A
- Resistance ranges:  $400\Omega 40M\Omega$
- Capacitance ranges: 4nF 40μF
- Frequency ranges: 100Hz 600kHz
- Diode and continuity test
   Delay hold mode
- Min., max., and relative hold function
- Input voltage: 9V battery or 90-132VAC/ 198-264VAC @ 50-60Hz
- Size: 9.0"W x 9.4"D x 3.3"H
- Weight: 3.3 lbs. Two-year warranty

Includes: Manual, test leads, power adapter, 9V battery, RS-232 cable and software (98/ME/2000/XP compatible)

Part No.	Product No.	1	5
230586CH	B940	\$148.95	\$141.55

#### 2000-Count Multimeter

The Fluke 8012A is a portable, bench-type, digital multimeter with 3½ digit liquid crystal display (LCD).

- · Resolution: 100µV maximum
- DC voltage ranges: 200mV - 1000V
- AC voltage ranges: 200mV 700V
- DC/AC current ranges: 20µA 2A
- Resistance ranges:  $2\Omega 20\Omega$  (low range)  $200\Omega - 20M\Omega$
- Conductance ranges: 2µS 200nS
- Size: 7.5"W x 9.6"D x 2.5"H
   Weight: 2.6 lbs.

Part No.	Product No.	Price
203801CH	8012A +	\$199.95

Refurbished = Backed by Jameco

### 20,000-Count True-RMS **Benchtop Multimeter**

- 41/2-digit green LCD
- DC accuracy: 0.05%
- Full overload protection
- Resolution: 10µV max.
- DC voltage ranges: 200mV - 1000V
- AC voltage ranges:
- EZ DIGITAL 200mV - 750V · DC/AC current ranges: 2mA - 10A
- Resistance ranges: 200Ω 20MΩ
- Frequency measurement up to 200kHz
- · Continuity check with beeper
- Data hold, diode check, transistor h<sub>FF</sub> measurement available
- Size: 9.9"L x 9.8"W x 3.6"H Weight: 6.1 lbs.
- One-year manufacturer's warranty

Part No.	Product No.	1	10	25
132564CH	DM441	. \$219.95	\$209.95	\$199.95

#### 20,000-Count Benchtop Multimeter w/ RS-232, Analog Bar & 4 Displays

- · Automatic polarity indicator
- 1-2 readings/second
- DC accuracy: 0.1% +5 digits
- 10 reading storage and compare
- Resolution: 10µV max.

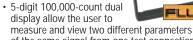


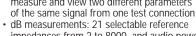
- DC voltage ranges: 200mV 1000V
- AC voltage ranges: 200mV 750V
- DC/AC current ranges: 2mA 20A
- Resistance ranges:  $200\Omega 20M\Omega$
- Frequency ranges: 20kHz 20MHz
- · Min., max., average, relative functions
- Logic, diode, transistor h<sub>FE</sub> and continuity test
   Size: 11.2"L x 8.2"W x 3.2"H Weight: 7.5 lbs.
- Includes: Manual, power cable, probes and software

Part No.	Product No.	1	10
166852CH	MXD4660A	\$249.95	\$224.95

## 100,000-Count Dual-Display True-RMS Benchtop Multimeter

The Fluke 45 delivers high performance and flexibility for manufacturing test, depot & field service, as well as R&D applications.





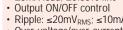
- impedances from 2 to 8000, and audio power from 2W to 16W • 2.5 reading per second Compare (Hi/Lo/Pass) function for quick
- in-tolerance tests Resolution: 1µV maximum
- 8 functions, 31 ranges Diode and continuity test
- DC voltage ranges:100mV 1000V
- AC voltage ranges (True RMS; AC-coupled): 100mV - 750V
- · DC/AC current ranges: 10mA 10A (0.05% DC current accuracy)
- Resistance ranges:  $100\Omega 100M\Omega$
- Frequency ranges: 1kHz 1MHz
- GPIB interface with battery Weight: 7.0 lbs.
- Size: 8.5"W x 11.3"D x 3.7"H
- Blue Part No. = Limited Qty Available

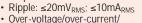
Part No. Product No. 229833CH FLK-45-15 ♥ .....<del>\$99</del>9.95 \$867.59

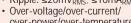
### 200W Programmable Switching **Power Supplies with PC Interface**

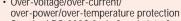
**INSTEK** 

- · Voltage regulation:
- ≤10mV load; ≤0.05% line
- Current regulation: ≤5mA load; ≤0.05% line









- Standard RS-232C 9-pin female interface Input voltage: 115/230VAC @ 50-60Hz
- Size: 8.9"W x 12.0"D x 3.9"H
- Weight: 8.8 lbs.
   Two-year warranty Includes: Power cord, operations manual & test leads

Product No. Description Part No. 229323CH PSP-2010 0-20V @ 0-10A \$349.95 \$332.45 229294CH PSP-603 0-60V @ 0-3.5A .. 349.95 332.45

## 90-Watt Digital DC Power Supply

#### 30VDC @ 3A

- · Constant current and constant voltage operation
- · Can be used for
- positive or negative source Overload protection circuit
- · Input voltage: 100/240VAC @ 50-60Hz
- Size: 5.2"W x 5.6"H x 10.0"D
- · Weight: 10.9 lbs.
- One-year warranty

Part No. Product No. 121152CH GP4303D ..... \$189.95 \$179.95

## 100-Watt Triple Output Digital and Analog DC Power Supplies

#### 30VDC @ 3A

- · Triple output with fixed 5VDC @ 0.5A, 12VDC @ 0.5A
- Adjustable 0 30V voltage and 0 - 3A current outputs
- Displays of both voltage and current Constant voltage
- or current · Current limiting indicator
- Overload and short circuit protection
- Binding post terminals for variable supply
- Input voltage: 110/220VAC @ 50-60Hz (switchable) • Size: 9.5"L x 6.0"W x 5.6"H • Weight: 10.0 lbs.
- Part No. Description 197991CH \$178.95 Digital DC ..... \$198.95

#### Analog DC ...... 168.95 197982CH 151.95 150-Watt Digital Power Supply

#### 30VDC @ 5A

- · Adjustable voltage/current outputs • 2A @ 250V fuse
- Constant voltage and current operation • Dual digital display
- LCD displays for both current and voltage
- · Coarse/fine adjustment knobs
- for current and voltage Input voltage: 110/220VAC @ 50-60Hz (switchable)
- Color-coded terminals for positive, negative and ground connections
- Šize: 5.4"W x 10.7"D x 6.0"H
- Weight: 13.8 lbs.
   One-year warranty

•		-	-	
Part No.	Description	1	10	25
153242CH	30VDC @ 5A	. \$234.95	\$211.49	\$190.35

## 150-Watt Power Supply

#### 50VDC @ 3A

- Adjustable voltage/current outputs
- · Constant voltage & current operation
- Color-coded terminals for ground, positive and negative terminals
- 3A @ 115V fuse
- · Color-coded adjustment knobs for voltage, current and fine adjustment Input voltage: 110VAC @ 60Hz
- Color: dark gray Weight: 12.3 lbs.
- Size: 9.0"L x 4.75"W x 7.5"H One-year warranty

			-	_
Part No.	Description	1	10	25
163723CH	50VDC @ 3A	\$143.05	\$136.75	\$120.80





vellemen:

MEW

355207CH

(DVM850)

separately, pg 210

## Benchtop Power Supplies & Digital Oscilloscopes

\$75.95

#### ( LASCAR

#### 30-Watt Digital Benchtop Power Supply

- · Single output with adjustable 1.5VDC to 30VDC
- Input voltage: 85-264VAC @ 47-63Hz
- · Large digit backlit display
- Overload and short-circuit protection Product No.

•	Compact design
•	Output terminals

Power

30 watts

- 1A fixed current output
- Size: 5.5"L x 5.2"W x 1.6"H



\$79.95



301971CH

Part No.

#### 45W to 600W Benchtop Power Supplies

· Voltage and current adjustable

PSU130

- Current restricted and short-circuit protection
- Input voltage: 110/220 ±10% VAC





Displays

Single digital





Digital display power supplies

Voltage accuracy: 1% + 2 digits



**Quantity SAVE** 

211692CH

Analog display power supplies • Accuracy: 2.5%

#### Single Output

Part No.	Product No.	Displays	Power (W)	Voltage (VDC)/Current (A)	Size (W"xH"xD")	Wt. (lbs.) 1	10
301920CH	HY1503C	2-Analog	45	15/3	3.8 x 6.3 x 9.1	9 <b>\$99.95</b>	\$94.95
301866CH	HY3003D	2-Digital	90	30/3	5.4 x 6.2 x 11.5	10 <b>179.95</b>	170.95
207618CH	HY3005C	2-Analog	150	30/5	5.4 x 6.2 x 11.5	14 <b>159.9</b> 5	144.95
207626CH	HY3010C	2-Analog	300	30/10	10.4 x 6.5 x 14.4	31 <b>299.95</b>	230.00
207693CH	HY5002	2-Digital	100	50/2	5.4 x 6.2 x 11.5	13 <b>189.95</b>	170.95
301911CH	HY3005D	2-Digital	150	30/5	5.4 x 6.2 x 11.5	13 <b>224.95</b>	213.70
207706CH	HY5003	2-Digital	150	50/3	5.4 x 6.2 x 11.5	13 <b>249.95</b>	190.00
207600CH	HY5005	2-Digital	250	50/5	10.4 x 6.5 x 14.4	17 <b>299.9</b> 5	269.95
207634CH	HY3010	2-Digital	300	30/10	10.4 x 6.5 x 14.4	31 <b>399.95</b>	305.00
207685CH	HY3020	2-Digital	600	30/20	10.4 x 6.5 x 14.4	42 <b>499.95</b>	449.95

#### Multiple Output

Part No.	Product No.	Displays	Power (W)	Voltage (VDC)/Current (A)	Size (W"xH"xD")	Wt. (lbs.) 1	10
211721CH	HY3002-2	2-Digital	120	0-30/2; 0-30/2	10.4 x 6.5 x 14.4	23 <b>\$249.95</b>	\$194.00
211705CH	HY3002D-2	4-Digital	120	0-30/2; 0-30/2	10.4 x 6.5 x 14.4	23 <b>269.95</b>	210.00
211692CH	HY3003D-2	4-Digital	180	0-30/3; 0-30/3	10.4 x 6.5 x 14.4	28 <b>289.95</b>	259.95
211730CH	HY3003-2	2-Digital	180	0-30/3; 0-30/3	10.4 x 6.5 x 14.4	28 <b>299.95</b>	230.00
211713CH	HY3003-3	2-Digital	195	0-30/3; 0-30/3; 5/3	10.4 x 6.5 x 14.4	29 <b>319.95</b>	287.95
211684CH	HY3003D-3	4-Digital	195	0-30/3; 0-30/3; 5/3	10.4 x 6.5 x 14.4	29 <b>329.95</b>	296.95
301946CH	HY3005D	4-Digital	300	0-30/5; 0-30/5	10.4 x 6.5 x 14.4	26.5 <b>349.95</b>	332.45
301954CH	HY3005D-3	4-Digital	315	0-30/5; 0-30/5; 5/3	10.4 x 6.5 x 14.4	29 <b>369.95</b>	351.45
301962CH	HY5003-2	2-Digital	300	0-50/3; 0-50/3	10.4 x 6.5 x 14.4	26 <b>339.95</b>	322.95

#### **Analog Power Supplies**

175265CH

#### 150 to 225-Watt

- · Color-coded adjustment knob and output terminals for voltage
- Voltage and current panel meter
- Cigarette lighter plug for current output
- · LED indicator for power and warning
- Constant voltage operation · Built-in fan 175265CH:15VDC @ 10A
- · Output current: 15A max.
- Over-voltage, over-current, short-circuit protection
   Input voltage: 110VAC @ 60Hz 175257CH: Ĭ5VDC @ 15A
- Output current: 25A max. (22A continuous @ 13.8VDC)
- Input voltage: 110VAC/220VAC @ 47-63Hz (switchable)

Part No.	Mfr. Cross Ref. No.	Output Voltage	Size (L"xW"xH")	Wt. (lbs.)	1	10	25
175265CH	DPS150A	2-15VDC	5.7 x 6.2 x 4.0	12.0	\$149.95	\$134.95	\$129.95
175257CH	SPS250A	9-15VDC	5.6 x 6.2 x 4.0	3.8	159.95	143.95	129.56

#### 250-Watt

- Color-coded adjustment knob & output terminals
   Adjustable voltage/current outputs 5A @ 250V fuse Input voltage: 110VAC @ 50-60Hz Constant voltage & current operation Isolated ground
- Part No. Mfr. Cross Ref. No. Size (L"xW"xH") Wt. (lbs.) Output Voltage 25 DPS5050 0-50VDC 175249CH 4.9 x 7.7 x 6.7 13.8 ..... **\$189.95** \$179.95 \$171.49

#### 150MHz 2-Ch Digital Oscilloscope

Color and Monochrome with RS-232/USB/ Parallel Interfaces

- Bandwidth (-3dB): 150MHz
- Real-time sample rate: 100MS/s maximum on each channel; equivalent: 25GS/s



- 2 channels with 8-bit vertical resolution
- Record length 125k/CH FFT function
- · Auto set vertical, horizontal, and trigger level
- 15 memory settings
- Vertical sensitivity: 2mV/div 5V/div
- Time base range: 1nS/div 10S/div
- Trigger sensitivity: DC 25MHz: 0.35div or 3.5mV;
- 25MHz 150MHz: 1.5div or 10mV Input voltage: 100-240VAC @ 50-60Hz
- Frequency counter: 6 digits ±50ppm; AC coupled, 10Hz 150MHz Two-year warranty
- Size: 12.2"W x 10.0"D x 5.6"H
   Weight: 9.3 lbs.

229307CH: Monochrome scope

229358CH: Monoch. w/ RS-232/USB/parallel interface **229366CH:** Color with RS-232/USB/parallel interface

Includes: BNC cable, power cord & operations manual

Part No.	Product No.		1	5
229307CH	GDS-820 <b>②</b>	SALE	\$1,008.65	\$916.95
229358CH	GDS-820S		1,259.95	1,196.95
229366CH	GDS-820C		1,439.95	1,367.95

Blue Part No. = Limited Quantity Available

#### Handheld 2MHz Digital Oscilloscope with DVM850 Multimeter

- 10MHz for repetitive signals;
- 2MHz for single shot events
- Input impedance: 1MΩ/20pF · Max. input voltage:
- 100V peak (AC + DC)
  Input coupling: DC, AC, and
- GND (GND for auto zero reference)
- LCD graphics display: 64 x 128 pixels
- · Vertical resolution: 8-bit
- Timebase range: 0.2µs to 1 hr./div
  Input sensitivity: 5mV to 20V/div
- Trigger mode: run, normal,
- once, and ± slope
   Linearity: ±1 bit Screen hold
- · True RMS and dB measurements
- · High contrast LCD display with 3.3" viewing angle

DMM!

- Recommend 9VDC @ 300mA power supply (133891CH, pg 175)
- Batteries not included (recommend 151087CH, pg 183) Weight: 1.0 lb.

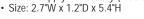
Includes: DVM850 multimeter (below) and insulated BNC-to-alligator clip measurement probes

## DVM850:

· 6-functions

175249CH

- · 31/2 digit w backlight, 2000 count
- · Data hold function
- · DC voltage ranges: 200mV to 100V
- AC voltage ranges: 200/600 • DC current ranges: 200µA to 10A
- Resistance ranges:  $200\Omega$  to  $2M\Omega$ · Diode, transistor and
- continuity test Power supply: 9V battery (included)







175257CH

#### Handheld 5MHz Digital Oscilloscope w/ True-RMS Multimeter

- 5MHz bandwidth; 25MS/s sampling rate
- Auto power off
- RS-232 PC interface
- 160 x 160 pixel graphical display with backlight
- Vertical sensitivity: 10mV 200V per div. (14 div.)
- Single channel with  $1M\Omega$  impedance
- · 4000-count dual display with analog bargraph
- Resolution: 100uV maximum
- DC voltage ranges: 400mV to 1000V
- AC voltage ranges: 400mV to 700V
- · DC/AC current ranges: 400mA to 20A
- Resistance ranges: 400Ω to 40MΩ
- Capacitance ranges: 40nF to 100μF
- Frequency ranges: 1Hz to 5MHz
- DBm, diode and continuity test
- Max/Min/Average w/ sampling rate & graphical plot
  Size: 4.2"W x 2.2" D x 8.3"H Weight: 1.8 lbs.

PE DOTEMBES

221962CH

METEX

Includes: Protective holster, built-in stand, Windows® 95-XP compatible software, RS-232 cable, 6 AA batteries, fuse, test leads, and alligator clips

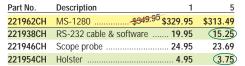
Part No.	Product No.	1	5
245930CH	381285	. \$398.95	\$378.95

#### Handheld 5MHz Oscilloscope with **4000-Count Digital Multimeter**

- 128 x 128 pixel graphic STN LCD
- E/L backlight
- PC interface via RS-232
- Memory and recall for 4 values
- Temperature measurement Oscilloscope:
- · DC-5MHz bandwidth; 20MS/sec. sampling rate; single channel Vertical axis: 3 steps
- $(\pm 0.5/5/50 \text{ volts})$  with 4 divisions
- · Horizontal axis: 16 steps (800ns/div to 26.2ms/div) in 8 divisions · Trigger: auto and internal mode
- slope and 5 trigger level selectable
- · Text display for peak to peak, min./max. voltage and frequency

#### Digital Multimeter:

- 3<sup>3</sup>/<sub>4</sub>-digit with 43 segment bargraph
- Auto ranging; triple display for related reading; data and range hold; auto/min/max hold and relative offset
- DC voltage ranges: 400mV 1000V
- AC voltage ranges: 4V 750V
- DC/AC current ranges: 400uA 400mA
- Resistance ranges:  $400\Omega 40M\Omega$
- Frequency ranges: 4kHz 4MHz
- Temperature ranges: -40°C +1200°C
- Capacitance ranges: 4nF 400µF
- Diode and continuity Size (unit): 3.4"W x 1.5"D x 8.0"H
  Weight: 3.9 lbs.
- Includes: Manual, power adapter and test leads



**Detailed specifications for Oscilloscopes** www.Jameco.com/scope

#### Handheld 20MHz Digital Oscilloscope & Multimeter

- · 4-in-1: digital oscilloscope, DMM, frequency counter & logic analyzer
- Oscilloscope: 2-channel input, 5mV-2V/div; DC-20MHz(-3dB); 50ns - 0.5us/div; 20 MS/s sampling rate
- Logic analyzer: 8 inputs; 1.4V threshold level; 35VDC max. input; 50ns min. pulse width
- Digital multimeter: 3¾-digit (max. 3999 counts); 40 segment analog bargraph; AC/DC voltage 400mV-600V; AC current 40µA-400mA; DC current 400µA-400mA



METEX

162430CH

FLUKE

- resistance  $400\dot{\Omega}$ - $40M\Omega$ ; continuity & diode testing Frequency counter: 5Hz-20MHz; 5 digit max.; autoranging; AC/DC/DC input coupling; ±10ppm
- accuracy; 35Vrms/42V-P/60VDC max. input Oscilloscope probes: Use P/N 22891CH or 216047CH, pg 217
- Battery required for portable use (see below)
- Size: 10.0"L x 5.0"W x 2.0"H
- Weight: 9.2 lbs. One-year warranty

Includes: Manual, 5VDC @ 3A power supply, power cord, DMM test leads, holster and case

Description	ı	<u></u>
20MHz digital scope	\$749.95	\$712.95
Logic probe	59.95	53.95
Rechargeable battery	45.95	41.49
RS-232 cable & software	26.95	24.25
Scope probe	24.95	23.69
	20MHz digital scope	20MHz digital scope       \$749.95         Logic probe       59.95         Rechargeable battery       45.95         RS-232 cable & software       26.95         Scope probe       24.95

#### Fluke 123 20MHz **Industrial Scopemeter®** with FlukeView Software

Digital Scope, 15-Function Digital Multimeter & Recorder

The Fluke 123 is the ideal choice for troubleshooting industrial machinery, instrumentation, and power systems. Automatically recognizes signal patterns and sets up correct triggering, timing, and amplitude for stable displays.

- Recorder: dual-channel TrendPlot™
- Digital Scope: dual-input 20MHz oscilloscope with 1.25GS/sec. repetitive sampling rate
- Digital Multimeter: dual-input 5000-count True RMS meter with ohms, capacitance & temperature
- Size: 4.5"W x 2.0"D x 9.1"H · Weight: 5.8 lbs.

#### FlukeView Software (Version 3.04)

Product No.

Part No.

- Documenting: transfer screens, waveforms & data to your PC for printing or importing to other programs
- · Archiving: store and retrieve waveforms with text annotations and create your own library
- · Analysis: gather valuable data and enable cursor measurement, extend recording of up to four user-selected measurements, upload waveforms and use cursors for detailed measurements
- Compatible with Windows® operation system

203131CH	Fluke 123S <b>↔ ⊙</b>	\$1,099.95
* Refurbished	= Backed by Jameco	<b>♦</b> Blue P/N = Limited Qty Available
DI	MMs on Pag	ges 211 – 214
FLUK	MAS	EXTECH INSTRUMENTS
4	WAVETEK'	MFTFX <sup>®</sup>



Color and B/W

With up to 200MHz bandwidth, 2.5 GS/s real-time sampling and a deep memory of 27,500 points per input, they're ideal for engineers who need the full capabilities of a highperformance oscilloscope in a handheld, batterypowered instrument.



222383CH

· Dual-input - 200 or 100MHz bandwidth

- Up to 2.5 GS/s real-time sampling per input
   Connect-and-View™ automatic triggering and a full range of manual trigger modes
- Digital Persistence for analyzing complex dynamic waveforms like on an analog scope
- Fast display update rate for seeing dynamic behavior instantaneously
- Automatic capture and replay of 100 screens
- 27,500 points per input record length using ScopeRecord mode • TrendPlot paperless chart recorder for trend analysis up to 22 days
- Up to 1000V independently floating isolated inputs
- · Waveform reference for visual comparisons and automatic pass/fail testing of waveforms
- Vpwm function for motor drive and frequency inverter applications
- 1000 V CAT II and 600 V CAT III safety certified
- Four-hour rechargeable NiMH battery pack

211220CH: Includes FlukeView software Includes: Test leads, probes and manual



Part No. Product No. 222383CH FLK-199C (200MHz)color \$2,899.95 \$2,754.95 211220CH FLK-199B/S (200MHz) ..... 1,999.95 1,818.81

♣ Blue P/N = Limited Qty Available ♣ Refurbished = Backed by Jameco

#### 50MHz Digital PC-Based Oscilloscope, Spectrum Analyzer and Transient Recorder

 Sampling frequency: 1.25kHz-50MHz real-time; 1GHz repetitive



Input impedance: 1MΩ/30pF

- Parallel Port Interface
- · Inputs: 2 channels, 1 external trigger input
- Max. input voltage: 100V (AC and DC)
  Power required: 9V to 10V @ 1000mA
- (recommend P/N 100888CH, pg 175)

#### Oscilloscope:

- Timebase: 20ns–100ms per division
- Input sensitivity: 5mV-15V per division with auto step-function
- Recording length: 4096 samples per channel Spectrum Analyzer:
- · Frequency range: 0 to 25MHz
- Transient Recorder:
- · Time scale: 20ms/div-2000s/div
- · Max. recording time: 9.4 hours/screen
- Max. number of samples: 100/s

System requirements: IBM compatible PC, Windows® 95/98/ME, SVGA card, mouse, printer port, CD-ROM Includes: 2 test leads, PC parallel cable, manual and CD-ROM software

Part No.	Product No.	1	5
2001040	DCCEOOAII	¢470 05	\$420.05



#### PC-MultiScope 20MHz 2-Channel Digital Oscilloscope

mission technology



- 100MHz sampling; dual channel
- · Chart recorder and FFT mode
- 5mV to 5V per div.; 20MHz bandwidth; ext. trigger
- 0-4MHz sine and square wave signal generator Triple power supply; 5VDC @ 500mA and
- ±0-8VDC @ 250mA One-vear warrantv
- Size: 4.3"L x 5.0"W x 1.5"H · Weight: 3.8 lbs. Includes: Parallel port cable, AC adapter, alligator clip

probe, Windows® 3.1/95/98 software

Part No.	Description	1	10
163230CH	PC-MultiScope 3	. \$579.95	\$529.95

#### 20MHz 2-Channel Analog **Oscilloscope**





- · 6" rectangular high-resolution blue CRT with internal graticule & scale
- Vertical deflection: 5mV/div to 5V/div in 10 calibrated steps
- Horizontal deflection: 0.2µs/div to 0.2s/div in 19 calibrated steps, 1-2-5 sequence
- Max. signal input voltage: 250V (DC and peak AC)
- · ADD function measures sum of two signals
- · Input voltage: 98-125VAC @ 1A, 198-225VAC @ 0.5A, 50-60Hz, 45W
- Two-year manufacturer's warranty
- Size: 16.4"L x 12.6"W x 5.3"H
   Weight: 20.8 lbs.

Includes: Two (X1/X10) 40MHz probes, power cord, manual, and block diagram

Part No.	Product No.	1	5
136098CH	OS5020	\$399.95	\$385.95

#### 20MHz 2-Channel Analog Oscilloscope with 1MHz **Function Generator**

· Basic specs same as OS5020 (above)

Function generator

- Frequency range: 0.1Hz to 1MHz (7 ranges)
- · Output waveforms: sine, triangle, square, TTL pulse
- Output impedance:  $50\Omega$
- Output voltage: 14Vp-p
- Size: 12.6"L x 12.6"W x 6.8"H Weight: 23.8 lbs.

2 Instruments in 1

🤗 EZ DIGITAL

· Two-year manufacturer's warranty

Includes: Two X1/X10 40MHz probes, power cord, manual, BNC to alligator, and cable

Part No.	Product No.	1	10
94650CH	OS5020G	\$529.95	\$499.95

#### 20MHz 2-Channel Analog Oscilloscope with Built-in **Component Checker**

- 6" rectangular CRT
- with internal graticule Built-in component checker/tester for resistors, capacitors,



5mV/div to 20V/div in 12 calibrated steps (1-2-5 sequence)

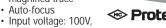
- Input impedance: 1MΩ, 20pF
- Max. input (vertical amplifier): 300VDC or AC peak
- Horizontal sweep time: 0.2µs/div to 0.5s/div in 20 calibrated steps (1-2-5 sequence)
- Internal trigger sensitivity: 20Hz to 20MHz
- Size: 17"L x 14"W x 5.75"H Weight: 15.5 lbs. Includes: Two X1/X10 60MHz probes, power cord.

and operations manual

Part No.	Product No.	1	5
201857CH	P-3502C	\$394.95	\$375.19

#### 20MHz 2-Channel Analog Oscilloscope with Alt-Mag and 1mV/div Sensitivity

- · Large 6" CRT with internal graticule
- · Alt-Mag sweep for simultaneous displays of the main and X5 magnified trace
- Auto-focus





- Sensitivity 1mV/div to 1V/div (X5 Mag); 5mV/div to 5V/div in 10 steps (1-2-5 seq.)
- Bandwidth: (-3dB): DC to 20MHz
- · Input impedance: 1M ohms, 25pF
- Maximum input voltage: 400V (DC or AC peak) Horizontal Sweep
- Sweep time: 0.1uS/div to 0.2S/div in 20 steps (1-2-5 seq); X5 mag: 20nS/div to 40mS/div
- Triggering Sensitivity: Internal – DC to 2MHz: 2 divisions;

2MHz to 20MHz: 3 divisions Includes: X1 and X10 probes, power cord & manual

Product No. \$408.45 220679CH PROTEK 6502 \$429.95

#### 100MHz 2-Channel Analog **Oscilloscope**

EZ DIGITAL

- · 2-channel dual trace
- Delay line
- Auto focusing according to intensity
- Size 16.9"L x 12.6"W x 5.5"H
- Weight: 22.8 lbs.

Two-year warranty

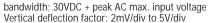
Includes: Two (X1/X10) 100MHz probes, power cord, and operations manual

Part No. Product No. 121179CH OS5100 .....

100MHz Delayed Sweep Analog Oscilloscope w/ Frequency Counter

2 Channel, 4 Trace

- DC to 100MHz bandwidth
- 6" rectangular CRT with internal graticule
- Auto set, readout cursor, delay sweep, hold-off functions
- Z-axis intensity modulation: DC to 2MHz



- · Horizontal time base A/B deflection:
- 5ns/div to 0.5s/div in 22 calibrated steps
   Input coupling: AC, GND, DC
- Rise time: 3.5ns or less
   Weight: 17.6 lbs.

Includes: Two X1/X10 100MHz probes, power cord, and operations manual

aria operat	ions manaai		
Part No.	Product No.	1	5
190932CH	OS5100RB	\$1,199.95	\$1,139.95

#### Modular Oscilloscope Probes



- Hook and pointed probes
- 216047CH/236777CH: with IC test ground cover and spring ground contact . Length: 5'
- Alligator clip ground wire BNC male connector
- Maximum input voltage: 600V

	Bandwidth (±3dB)		Bandwidth (±3dB) Impedance (R/0		nce (R/C)*
	Attenuation		Atten	uation	
Part No.	х1	x10	х1	x10	
22891CH	6MHz	60MHz	1MΩ/180pF	10MΩ/22pF	
216047CH	6MHz	100MHz	1MΩ/47pF	10MΩ/16pF	
236777CH	6MHz	250MHz	1MΩ/47pF	10MΩ/14pF	

\* with 20pF oscilloscope input

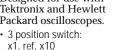
Part No.	Mfr. Cross Ref. No.	1	10	50
22891CH	LF101E\$2	4.95	\$22.46	\$20.21
216047CH	HF-9100 3	4.95	29.95	26.95
236777CH	HP-9250 4	5.95	43.39	37.25

#### Scilloscope Probes

174473CH

212214CH

Designed for use with Tektronix and Hewlett Packard oscilloscopes.



• Bandwidth @ 3dB: 10MHz (x1); 150MHz (x10) Loading: 57pF,

 $1M\Omega (\bar{x}1);$ 15pF,  $10M\Omega$  (x10) Low-resistance

gold contacts · Čord length: 5'

174473CH: 7-piece kit 212214CH/212257CH: 25-piece kit

Part No.	Product No.	1	10
174473CH	4901-02 (150MHz)	\$49.95	\$44.99
212214CH	4915 (150MHz) 🔾 - \$149.99	123.69	112.45
212257CH	4915A (250MHz)	149.95	142.49

Blue Part No. = Limited Quantity Available

Detailed specifications for Oscilloscopes @ www.Jameco.com/scope



229251CH

**INSTEK** 

229260CH

#### Pomona®

#### 100MHz Probe Set

• 48" cable

- Complete accessory kit included
- · Attenuation: x1/x10
- · Bandwidth: 15/100MHz (-3dB
- · Rise time: 23.33/3.5ns
- Input resistance: 1/10MΩ Capacitance: 64/10.5pF
- Compensation range: 10~60pF

Product No. Description 10 156451CH 4550B Probe kit \$51.95 \$46.95

#### 17MHz Logic Probe

- · Max input freq.: 17MHz
- · Minimum pulse width: 30ns
- Input impedance: 1MΩ
- Pulse flash time: 500ms
- · Audible tones for high and low
- Power supply protection: ±20V
- TTL threshold: Lo = 0.8V  $\pm$ 0.2V, Hi = 2.3V  $\pm$ 0.2V
- CMOS threshold: Lo = 30% VCC, Hi = 70% VCC
- Size: 7.7"L x 1.0"W x 0.6"H

Part No.	Description	1	10	25
149930CH	Logic probe	\$29.95	\$26.99	\$24.29

#### **Logic Pulser**

- · Compatible with TTL, DTL and CMOS ICs
- 1MΩ sync input impedance
- "One shot" or continuous 5Hz train pulse
- Pulse repetition rate: 0.5pps/400pps
- Pulse width output at 100mA load: 10µs
- · Pulse mode output current: 10mA
- Square wave current output: 5mA
- Size: 7.8"L x 1.0"W x 0.6"H

Part No.	Description	1	10	25
24601CH	Logic pulser	\$21.95	\$19.76	\$17.78

#### 100MHz Logic Analyzer **USB** Interface

DigiView<sup>TM</sup> is a new 18-channel, 100MHz logic analyzer with professional quality and high



- 18-channels, 100MHz
- · USB interface and power source for portability
- Real time hardware compression
- Compression ratio up to 256,000:1
- · Trigger on rising, falling, or transition of any channel
- · Pre-trigger and post-trigger data capture
- Captures up to 5 minutes of data @ 10ns resolution

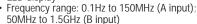
ouptu	oo ap to o mimatoo of aata -		00.00.
Part No.	Description	1	5
256866C	H USB logic analyzer	\$498.95	\$474.09
256874C	H Cable replacement	29.95	28.49
256882C	H Grabber clip set (10)	29.95	28.49

#### 1.5GHz Frequency Counter

🤧 EZ DIGITAI

#### 2 Channels

- Input voltage: 115/230VAC @ 50-60Hz (switchable)
- Gate time: 0.01s, 0.1s, 1s, 10s
- 9-digit green LED display



- Resolution: 0.1nHz to 10Hz (A input); 0.1Hz to 100kHz (B input)
- Frequency, period, totalize, RPM
- Size: 10.3"L x 10.0"W x 3.2"H Weight: 5.3 lbs.
- · One-year warranty

Includes: Fuse, manual and BNC cable

Part No.	Product No.	1	5
55790CH	FC-7150	\$284.95	\$259.95

#### **2MHz Sweep Function Generator** with Frequency Counter

- Frequency range: 0.02Hz–2MHz in 7 ranges
- Sweep width: 1:1 to 100:1; rate: 20ms to 25s (.5Hz-50Hz)
- Output impedance: 50Ω ±5%
- Frequency counter range: 0.2Hz to 50MHz



- Maximum input voltage: 150VRMs @ 1kHz
- Input voltage: 115/230VAC @ 50-60Hz (switchable)
- Size: 10.3"L x 10.0"W x 3.2"H
- · Weight: 5.8 lbs. · One-year warranty

Includes: Probe and detachable power cord

Part No.	Product No.	1	5
94676CH	FG7002C\$	329.95	\$296.95

#### 2MHz & 10MHz Sweep Function **Generators w/ Frequency Counter**

#### **Function Generator**

- Wave forms: sine, square, triangle, skewed, ramp, pulse & TTL level square
- Frequency: 2Hz to 2MHz in 7 ranges (192671CH); 1Hz to 10MHz (221911CH)
- Output amplitude:
  - 2 to 20Vpp at open load; 1 to 10Vpp at  $50\Omega$  load Output impedance: 50Ω ±10%

221911CH

METEX

- Offset variable range (max.): ±10VDC at open load
- · Frequency sweep time: 20ms to 2s
- Frequency Counter
- Measuring range: channel A:
- 1Hz to 20MHz; channel B: 20MHz to 2.7GHz
- Input sensitivity: channel A: 20mVRMS sinewave or 100mVp-p; channel B: 40mVRMS for 20MHz to 1.3GHz; 70mVrms for 1.3GHz to 2.7GHz
- · Maximum input voltage:
- channel A: 35Vp-p; channel B: 3Vp-p
- Input impedance: channel A,  $1M\Omega$ ; channel B,  $50\Omega$
- Data logging and graphic software
  Size: 11.0"L x 8.2"W x 3.7"H Weight: 13.4 lbs.

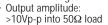
Includes: Coax and power cable, manual, serial cable and software

Part No.	Description 1	5
192671CH	2MHz/2.7GHz \$319.95	\$255.96
221911CH	10MHz/2.7GHz 417.95	396.99

#### 2MHz & 3MHz Function **Generators w/ Frequency Counter**

#### **Function Generator**

- Wave forms: sine, triangle, square, TTL and CMOS output; 229260CH has ramp
- Frequency ranges: 229251CH: 0.2Hz -2MHz in 7 ranges; 229260CH: 0.3Hz -3MHz in 7 ranges



- Output impedance: 50Ω ±10%
- DC offset range: <-5V to > +5Vinto  $50\Omega$  load Voltage controlled
- frequency function
- Variable DC offset control



- 229251CH:
- 4-digit LCD displayRanges: 0.2Hz to 2MHz internal only; with resolution of 0.1Hz to 1kHz
- Size: 9.1"W x 11.0"D x 3.7"H 229260CH:
- · 6-digit LCD display
- Ranges: INT/EXT switch, 0.3Hz to 3MHz internal and 5Hz to 150MHz external; resolution of 10nHz to 0.1Hz
- Size: 9.9"W x 11.5"D x 3.6"H

Includes: Power cord, operations manual and leads

Part No.	Product No.	Description 1	5
229251CH	GFG-8020H	2MHz <b>\$259.95</b>	\$246.95
229260CH	GFG-8216A	3MHz \$299.95 279.95	251.99

#### METEX® 4-in-1 Universal System

With Function Generator, Universal Counter, DC Power Supply & Digital Multimeter

 Function generator capable of

generating seven forms of waves (sine, square, triangle, skewed sine, ramp, pulse, and TTL square wave) in seven frequency ranges from 0.2Hz to 2MHz



Less Bench Space -**Great Convenience** 

- Universal counter capable of measuring frequency ranges from 5Hz to 1.3GHz
- DC power supply capable of generating 5V @ 2A, 15V @ 1A fixed and 0 to 30V @ 0 to 2A variable
- Digital multimeter with ranges of: DC voltage (400mV to 100V), AC voltage (400mV to 750V) DC/AC current (40mA to 20A), resistance (400 $\Omega$  to  $40M\Omega$ ), capacitance (4nF to  $400\mu F$ ) and forward resistance of a semiconductor junction in  $k\Omega$
- Size: 14.5"W x 14.0"D x 7.0"H
- Weight: 37 lbs.
   One-year warranty

Includes: Manual, cables and software

Part No.	Product No. 1	5
160864CH	MS9150 <b>\$549.95</b>	\$499.95

**Detailed specifications for Function Generators** www.Jameco.com/function





Includes: Built-in tilt stand, AAA battery, and wall

mounting bracket Description



## **Water Resistant Multi-Function**

#### Sports Timer/Stopwatch Time calendar display: hours,

- minutes, seconds, month, date, and day of the week
- second during the first 30 minutes, 1 second after 24 hours
- Alarm and snooze function
- Part No. Description



For detailed specifications see www.Jameco.com/environmental

#### 2MHz Function Generator

- · Frequency range: 0.02Hz to 2MHz
- · Waveforms: sine, triangle, square, ramp, TTL pulse, skewed sine
- DC offset voltage from 0 to ±10V; can be superimposed to output waveform



· Variable waveform/duty cycle symmetry

- · Output voltage: 20Vp-p (open circuit), 10Vp-p (into  $50\Omega$ )
- Input voltage: 110V/220V 50-60Hz
- Size: 10.0"L x 8.0"W x 3.0"H
   Weight: 5.4 lbs.
- · One-year manufacturer's warranty

Includes: Cord, BNC to clip cable, fuse and manual

Part No.	Product No.	1	5	10
66069CH	FG8002	\$189.95	\$179.95	\$169.95

### 3MHz Function Generator

- · Square, triangle, and sine waves; TTL and CMOS pulse outputs
- · Frequency: 0.3Hz to 3MHz in 7 ranges
- Output impedance: 50Ω ±10%
- · CMOS output level: 4Vpp, ±1Vpp to 14.5Vpp; ±0.5Vpp adjustable
- DC offset: <-5V to >+5V into 50Ω load
- · Variable controlled frequency input
- · Variable DC offset control
- · Signal polarity invert button · Duty cycle control
- Size: 9.6"W x 11.5"D x 3.7"H
   Weight: 4.4 lbs.

Product No. 222594CH FG2C ......\$239.95 \$234.95

#### 5MHz Function Generator

Engineered for high reliability and user convenience.

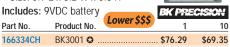
- · Waveforms: sine, square, triangle,
- and ramp
- 0.5 to 5MHz · 100% DC offset
- · Variable duty cycle
- Output impedance: 50Ω
- Coarse and fine tuning • Size: 10.4"W x 11.7"D x 3.4"H
- Weight: 6.2 lbs.
   Two-year warranty

Part No. Prod. No. Description **160469CH** BK4011A 0.5 to 5MHz .... **\$314.95** 

#### 150kHz Sine/Square-Wave **Audio Generator**

Small and convenient, this audio generator can be used to test telco and audio equipment.

- 20Hz to 150kHz in 46 steps
- · Low distortion R-C oscillator
- · Variable output control
- Output impedance: 600Ω
- One-year manufacturer's warranty
- Size: 5.9"L x 3.2"W x 0.8"H





• Size: 5.9"	• Size: 5.9"L x 3.2"W x 0.8"H				
Includes: 9	VDC battery	Lower \$\$\$	BK PRE	CISION	
Part No.	Product No.	Lower \$\$\$	1	10	
166334CH	BK3001 🖸		. \$76.29	\$69.35	
♣ Blue Part No. = Limited Quantity Available					

#### Pocket IR Thermometer with Laser Pointer

Function Generators and Temperature/Environmental Meters

The pocket IR thermometer measures the surface temperature of objects which are difficult to reach or unsafe to contact. It also measures hot spots in electrical panels and equipment. In-process temperature measurements. With a 6:1 ratio field of view and built-in laser for improved aim, it covers 90% of surface applications for temperature measurement.

- Temperature range: -58°F to 518°F (-50°C to 270°C)
- · Built-in laser pointer to improve aim
- \*F/\*C switchable
- · Fixed emissivity (0.95) covers 90% of surface applications
- · Visual overrange indicator
- 6:1 field of view
   Pocket size meter
- · Data hold and max hold • Size: 3.8"L x 2.0"W x 0.9"D

includes:	2 AA Datteries			
Part No.	Description		1	5
219361CH	Pocket IR thermometer	\$59	.99	\$56.99

#### Non-Contact Infrared Thermometers w/ Laser Pointer

**EXTECH** 

236451CH

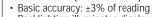
211588CH

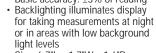
- · Built-in laser pointer identifies target area
- Field of view: 6:1 (6" distance measures 1" target)
- · Automatic data hold when trigger released and auto power off
- Fixed 0.95 emissivity covers 90% of surface application



#### 236451CH:

Temperature range: -4°F to 500°F (-20°C to 260°C)





Size: 6.7"L x 1.7"W x 1.6"D

#### 211588CH:

- Temperature range: 0°F to 600°F (-20°C to 320°C)
- Basic accuracy: ±2% of reading
- 2000-count backlit LCD display
- Audible and visible over-
- range indicators Size: 8.3"L x 3.5"W x 1.5"D

3120. 0.3	L X J.J W X 1.J D		
Part No.	Product No.	1	10
236451CH	42500	\$79.95	\$74.95
211588CH	42529	88.95	84.50

## **Digital Compass and Stopwatch**

Find your way with this digital compass and stopwatch combo.

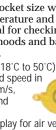
This amazing digital compass will point you in the direction of high adventure. With a 2º of accuracy, it's smart enough to know exactly where you're heading, anywhere in the world, anytime. And speaking of time, an integrated stop-

watch, timer and 12/24 hour clock are also included in this compact, water-resistant little wonder. As a primary guide or as a backup to vour GPS, vou'd be lost without it!

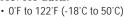
your arb	, you a be lost without it	••
Part No.	Description	Price
236793CH	Digital compass & stopwatch	\$9.95











EXTECH

- · Measures wind speed in ft/min. MPH, m/s. km/h. knots and Reaufort force
- · Large dual display for air velocity and temperature
- · Water resistant housing floats and drop tested to 6' Includes: CR2032 lithium battery and lanyard

Description 218085CH Mini thermo-anemometer .... \$88.95 \$84.49

#### **Temperature/Humidity Meter** with Min/Max Memory

- · Displays (%) relative humidity and temperature (°C/°F) simultaneously
- · Min./Max. memory on both relative humidity and
- temperature with reset function Temperature range:
- 14°F to 140°F (-10°C to 60°C); · Humidity range: 10% to 99%
- 1" high readout
   Size: 4.3"L x 3.9"W x 0.8"Thick

Part No.





- Stopwatch accuracy: 1/100 of a
- · 12/24 hour time display mode
- Size: 2.2"W x 2.7"H x 0.8"Thick





#### Hygro + Infrared Thermometer

Combination humidity meter plus infrared thermometer features a super large backlit dual display. The primary display is user selectable for IR or humidity, while the secondary display always displays ambient temperature. The infrared thermometer has a built-in laser pointer with an 8:1 distance to target ratio.



- Data hold and MAX
- · Remote humidity sensor with 39" coiled cable
- · Humidity ranges: 10.0 to 95.0% with ±3.5% accuracy
- Air temperature ranges: -4°F to +140°F (-20°C to +60°C) with ±3°F (2°C) accuracy
- IR temperature ranges: -58°F to +932°F (-50°C to +500°C); ±2% or ±4°F (2°C) accuracy Size: 2.8"W x 1.4"D x 5.9"H
   Weight: 0.5 lbs.

Includes: Stand, holster, probe, battery and case Part No. Description

285974CH Hygro/infrared thermometer \$148.95 \$141.49

**EXTECH** 

#### **Electromagnetic Radiation Meter**

Electromagnetic radiation is all around us, some good, some bad. But, there's never been an easier, more portable device to detect and measure it until the ZAP Checker. Now you can measure your microwave oven's emissions or take engineering measurements of HF, VHF, or UHF transmissions. ZAP Checker does it all. Its portability, multiple settings, ultra-high sensitivity and expanded bandwidth allows you to search out Totally EMR whenever and Unique wherever needed.



Part No. 10 217808CH \$114.95 ZAP checker ..... \$129.95

## **Digital Light Meter**

- · Measures in Lux and footcandle ranges • Range: Lux – 0 - 50,000 Lux
- (3 ranges); footcandle -0 - 5,000 Fc (3 ranges)
- Analog output connectors for external recording
- · Separate light sensor for
- optimum location sampling • 0.5" digit height
- Dimensions (sensor probe): 3.2"L x 2.2"W x 0.5"H
- · Weight: 0.9 lbs.
- One-year warranty

Part No. Description 131764CH Digital light meter ..... \$99.95

For detailed specifications see www.Jameco.com/environmental

#### Mini-Clip to Banana Test Cables

- Plunger-type action
- Available in
- black or red Positive connection that won't disconnect from components
- Banana plug connection

on opposite end

Length: 3.5' • 20 AWG insulated wire

Part No.	Description 1	10	100
21856CH	Black test cable \$3.95	\$3.55	\$2.99
21864CH	Red test cable 3.95	3.49	2.99

#### **Pomona®**

#### Stackable Banana **Test Lead Cables**

21864CH



5000V @ 15A
 55°C max.

159898CH: Two 36" leads, mini clip w/ banana

45VAC @ 5A max.; beryllium copper contact and glass filled insulation

159901CH: Two 24" leads 159919CH: Two 36" leads

Part No.	Prod. No.	Description	1	10	25
159898CH	3782-36	Mini w/ banana	\$7.95	\$7.19	\$6.59
159901CH	B-24-02	Patch cord	9.95	8.95	7.95
159919CH	B-36-02	Patch cord	9.95	8.95	7.95

#### Banana-to-Banana Test Leads

- Stackable
- Color coded; 2 each red, yellow, blue, black, white • 9.8" long
- 10 per package
- 18 AWG wire

				-
Part No.	Description	1	10	25
77841CH	Test leads	\$22.95	\$20.69	\$18.59

#### **Double-Banana Plug** to Alligator Clips **Test Cable**

- · Red & black rubber boot · 4" lead wire · Length: 3"

Part No.	Description	1	10	50	100
107422CH	Test cable	\$3.95	\$3.49	\$2.95	\$2.49

#### **Alligator Clip Leads**

- 24 AWG wire
- · Color-coded, 15" long
- · Insulated alligator clip on each end
- 10 per pkg. in assorted colors

Part No.	Description	1	10	100	1000
10444CH	Alligator leads	\$4.39	\$3.95	\$3.56	\$3.20

#### **BNC to Alligator Clip Test Cable**

Permits BNC assembly to be used as a test cable.

- Upper connection: two alligator clips – red 5.5" 22AWG wire; black 9" 22AWG wire
- Lower connection: 23" RG/58U cable with BNC connector



#### **Insulated Alligator Clips**

- · Color-coded · Insulated barrel
- Jaw opening .375"-0.5"
- Solder strap and pre-drilled hole for 6-32 self threading screw
- Size: 2.3"L x 0.5"W

Includes: One red and one black clip

Part No.	Description 1	10	100	1000
70990CH	Alligator clips \$.39	\$.36	\$.33	\$.30

#### 11/16" Banana Plugs

- Set-screw connection
- · Standard banana spring plug
- Additional 6-32 threaded hole for connection reliability
- · Insulating sleeve is threaded to banana plug body
- .1875" lead opening
   Size: 1.6"L x 0.4"Dia.

Includes: One red and one black plug

Part No. Description 100 1000 72194CH Banana plugs ... \$1.59 \$1.49 \$1.25 \$1.09

## 21/4" Banana Plugs

- · Nine rib spring plug
- · Will accept up to 0.1" dia. wire
- Each plug equipped with hole for interconnection
- · Insulating sleeve fits snugly over copper post
- Size: 2.3"L x 0.3"W Set-screw connection

Includes: One red and one black connector

Part No.	Description	1	10	100
137525CH	Banana plugs	\$2.95	\$2.12	\$1.84

## **Claw Clips and Alligator Clips**



<ul> <li>Sold in it</li> </ul>	ncrements of 2, 4 or 10 •• Blue Part No. = Limite	ed Quantity Available			
Part No.	Description	Size	2	4	10
248920CH	Mini-alligator clip solder/crimp	1.2"L x 0.3"W	\$.28	\$.25	\$.23
248954CH	Red insulator for 248920CH		18	.16	.14
248946CH	Black insulator for 248920CH		18	.16	.14
256524CH	Alligator clip, barrel/screw	1.9"L x 0.2"W	45	.38	.35
248938CH	Alligator clip, solder/crimp	1.6"L x 0.3"W	52	.48	.42
248971CH	Red insulator for 248938CH/256524CH		21	.19	.17
248962CH	Black insulator for 248938CH/256524CH		21	.19	.17
248989CH	Claw clip 10A, screw terminal	2.1"L x 0.4"W		.44	.40
249009CH	Claw clip 20A, screw terminal	2.5"L x 0.5"W	55	.50	.45
248997CH	Claw clip 30A, screw terminal <b>SALE</b>	2.8"L x 0.6"W	69	.62	.58

#### Pomona<sup>®</sup> Solderless Banana Plug Sets



- Nickel-plated ABS insulation
- · Set screws secure leads • 5000VDC @ 15A • 50°C max.
- · Color: 1 red and 1 black per set

159863CH: Solderless with safety collar & set screw 159855CH: Solderless with set screw

159927CH: Solderless double banana plug w/ wire guide

Part No.	Product No.	1	10	25
159863CH	1825-02 set	\$2.65	\$2.50	\$2.38
159855CH	1325-02 set	3.29	2.99	2.69
159927CH	MDP-02 set	4.69	4.38	4.07

#### **BNC to Standard Double** Banana Plugs Quantity SAVE





Permits BNC cables to be used with equipment having banana jacks. Lower connection: BNC; upper connection: double banana plug on .750" centers. Cross holes .166" diameter in body provide side stack-up connections.

Part No.	Description	1	10	100
11439CH	BNC banana plug (F)	. \$4.95	\$4.49	\$3.99
125225CH	BNC banana plug (M) .	5.49	4.67	3.50

#### Double Banana Plugs

· Dual gold-plated female banana plugs

Stackable

		23217611		
Part No.	Description	1	10	100
125209CH	Blk banana conn	\$2.65	\$2.25	\$1.69
125217CH	Red banana conn	1.99	1.79	1.61

#### 1" Screw-Type Binding Posts

- · For both wire and standard banana
- 0.16" hole for banana test leads
- · Chassis mount with lock washer and nut · Solder tab hole: 0.06"Dia.
- · Size: 1.0"L x 0.5"Dia.

Requires: 0.32" mounting hole

Includes: One red and one black insulated post

Part No.	Description	1	10	100	1000
71239CH	Binding posts (2)	\$.99	\$.85	\$.69	\$.59

#### 13/4" Screw/Solder Binding Posts

- · For both wire and standard banana
- · 0.16" hole for banana test leads
- · Chassis mounting
- · Solder post: 0.0625"Dia.
- Size: 1.8"L x 0.5"Dia.

Includes: One red and one black insulated post

Part No.	Description	1	10	100	1000
77690CH	Binding posts (2)	\$1.09	\$.95	\$.79	\$.69

#### **Chassis Mount Banana Jack**

- 0.158
- · Molded ABS black plastic body
- Nickel plated steel solder lug and washer



#### **Panel Mount Tip Jacks** 1/4" - 32 Thread

Mounts in panels ranging in thickness from 0.063" to 0.375".

- · Plating: bright tin
- Material: brass
- Insulation: polycarbonate
   10 per package

Part No.	Cross Ref. No.	Color 1	10	100
256778CH	R1-17-BLK	Black \$8.59	\$8.15	\$7.75
263863CH	R1-17-RED	Red 8.59	8.15	7.75

#### **Double Binding** Posts - Dual Banana

- · Red/black design
- Screw-mount
- 0.72" between posts
   Size: 1.6"L x 1.4"W

Part No.	Description	1	10	100
125196CH	Screw mount bind post \$3	.95	\$3.45	\$3.19

#### Single Binding Post to BNC Male

- Binding post with captive thumb nut
- Accepts standard
- banana plugs Operating voltage:500 V<sub>RMS</sub>
- Brass nickel plated

Part No.	Description 1	10	100
100600CH	Red binding post \$1.59	\$1.34	\$1.06
100618CH	Black binding post 1.59	1.34	1.06

#### BNC to Double Binding Posts – Dual Banana

 Red/black design 125233CH Part No. 10 100 Description 125233CH BNC-female . \$4.21 \$3.16 99354CH BNC-male ..... 5.29 4.76

#### **Deluxe Electronic Test Lead Kit**

One pair (red & black) of:

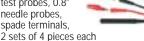
- One meter long test lead with a right-angle banana connector on one end
- Insulated probe tip extender
- Modular test probe with banana connector in handle
- · Modular hook-style clip
- test lead with banana connector
- · Modular pinch-style clip test lead w/ banana connector
- Insulated alligator clip
- · Modular alligator clip with banana connector
- Slide-on IC probe tip adapter and test lead couplers
- · Bare spade lug with banana connector

,	Part No.	Product No.	1	
	222463CH	TL81A 🌣	. \$98.95	\$93.9

Blue Part No. = Limited Quantity Available

#### Universal Test Lead Kit

Includes: 3' black/ red cables, 4.5" black/red insulated test probes, 0.8" needle probes,



red/black insulated alligator clips and banana plug

Part No.	Description	1	10	100
168516CH	Universal kit	\$8.95	\$7.95	\$6.95

#### **Protected Banana Style Multimeter Test Probes**



- Threaded/pointed test tip • 18 AWG wire • 42" long
- Black and red

1071110	o nivo vino 12 long 2 poi puolitag		aonago		
Part No.	Description	1	10	25	
77737CH	Protected probes	\$6.49	\$5.85	\$5.25	

#### Standard Banana Style Multimeter **Test Probes**

- Black and red 18 AWG wire
- 42" long 2 per package





#### PROBE MASTER Probe Test Leads

- · 23K gold tips
- Silicon wire
- 1000V rated Length: 3'3"

100600CH

174625CH Includes: 10 plunger type tips 212222CH Includes: 10 pieces; screw-on alligator clips, spade lugs and spring hooks



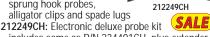
Probe Kits

Part No.	Description	1	10	25
174625CH	Micro tip test leads	\$29.85	\$28.35	\$26.95
212222CH	Softie test leads	23.85	22.65	21.55

#### PROBE MASTER

- · Rating: 1000V 10A
- Gold tips and contacts 212231CH: Universal probe

kit includes leads with shrouded right angle banana plug, probes, sprung hook probes,



includes same as P/N 234401CH, plus extender probes, minigator leads, .025" wire wrap leads, pico hooks and pincer hooks

Blue Part No. = Limited Qty Available

Part No.	Description 1	10
212231CH	Universal probe kit ❖ \$36.95	\$35.15
212249CH	Elect. deluxe probe kit 65.95	62.99

#### Pomona<sup>®</sup>

#### Replacement **Probe Test Lead Set**

- Set of two PVC 48" insulated leads, probe to banana plug
- · Fits all DMMs Right-angle multimeter



## Breadboard-Pin to

- **Breadboard-Pin Test Leads** · 4 each red, yellow, blue, black, white
- 5.9" long 20 AWG wire
- · 20 per package

Part No. 77825CH Breadboard pin leads \$12.95 \$11.69 \$10.49



#### Micro Test Clip • One piece per package Quantity SAVE

Description Part No. 10 100 1000 **153162CH** 1.6" micro test clip \$.**75** \$.**68** \$.54 \$.41

#### Mini Test Clips

· Two lengths Includes: One black and one red hooked probe clip 114817CH Part No. 100 114809CH 1.75" mini test clips \$1.89 \$1.35 114817CH 3.5" mini test clips ..... 1.75 1.39

#### Mini-Clip Test Leads

These spring loaded mini-clips hook easily to IC pins for testing.

· Set of five: red, blue, green, black and yellow

 14"L; clips on both ends 26 AWG to 300V CSA/UL approved wire

Description 135298CH Mini test leads \$11.49 \$10.39 \$9.29 \$8.39

#### Pomona®

#### Minigrabber® Test Clip Patch Cord Kit

155985CH

· One each of 10 colors: black, brown, red, orange, yellow, green, blue, violet, gray and white

24" leads; clips on both ends

Part No.	Prod. No.	Description	1	10
156494CH	5523	Patch cord (hook)	\$34.95	\$31.49

#### Pomona® 11"L Test Lead Holders

155985CH: Max cable dia.: 0.450

155977CH: Max cable dia.: 0.320"

155969CH:

Max cable dia.: 0.210"



#### **How to Test Almost Everything Electronic**

TAB Publishing Filled with easyto-follow instructions on how to troubleshoot all types of electronic systems. Learn the many uses of electronic tools, test equipment and troubleshooting techniques.

• Size: 7.4" x 9.3" • Weight: 1.3 lbs.

Part No. Description 126199CH How to Test Everything ....... \$17.95

#### **BNC Female Connector with** 20AWG Lead Wires

Solder the 20AWG wires onto your protoboard, plug the BNC female connector on to your test equipment and you have



an instant testing board for varied applications. • BNC female connector • 7" 20AWG lead wires

Part No.	Mfr. Cross Ref. No.	1	10	100
256831CH	CBB-069	\$5.39	\$5.15	\$4.89

#### **BNC to Clip Test Cables**



BNC connectors are designed for signal frequencies into the gigahertz range, making them ideal for communications, video & test equipment.

Micro-clip or mini-clip • Length: 39"

Part No.	Description	1	10	50	100
11421CH	Micro-clip RG174	\$3.99	\$3.19	\$2.89	\$2.59
11463CH	Mini-clip RG174	4.39	3.99	3.59	3.19

#### Pomona® BNC to Minigrabber® **Test Clips**

 RG 174/U, .100" O.D. Rating: 300 V<sup>RMS</sup> max.,

+50°C (+122°F) max.

Strain relief: PVC molded directly to connector

Length: 36"

Part No. Product No. 10 5187-K-36 ..... 176954CH \$21.95 \$19.95

#### Pomona®

#### BNC Male w/ Molded Strain Relief to Minigator® Test Clips

• RG 58C/U, .195" O.D.

• Rating: 45 V<sup>RMS</sup> max., +50°C (+122°F) max.

Jaws open to .187" max.

Length: 36"

Part No. Product No 10 **176971CH** 4532-C-36 ..... \$16.95 \$15.26

#### Pomona®

#### **BNC Cables**

RG58 C/U 50Ω cable

· BNC male connectors

· Molded strain relief

Part No.	Product No. 1	10	25
159871CH	2249-C-36 <b>\$15.95</b>	\$14.39	\$12.95
159880CH	2249-C-60 <b>15.95</b>	15.15	14.39

#### PC Cable-Check™ Tester Paladin

Tests standard computer cables for open, shorted and cross-connected wires. PC Cable-Check™ also tests any combination of D-sub 9-pin, D-sub 15-pin, D-sub 25-pin, Centronics 36-pin printer, plus RJ11, and RJ45 telephone plugs. A separate section to check USB-A to USB-B cables, as well a separate section to check female BNC to female BNC cables.





159871CH

#### RS-232 Mini-Tester with Status LEDs

Tests any RS-232 (DB25) interface and helps to identify equipment that has failed. Seven

bicolor LEDs indicate the status of TD, RD, RTS, CTS, DSR, CD and DTR. LEDs indicate positive (red) and negative (green). No extra power is required. Connectors: male to female DB25.

Part No.	Description 1	10	100
26729CH	Mini-tester \$11.95	\$10.76	\$9.68

#### Miniature RS-232 Breakout Box for Quick Design Changes

Design new interfaces or modify old ones quickly and easily. Completely self-contained. Connectors: male to female DB25.

Includes: 25 each 22 AWG wire jumpers and machine tool sockets



**Quantity SAVE** 

Part No.	Description	1	10	100
11181CH	Breakout box	. \$8.95	\$7.61	\$5.71

#### RS-232 Loopback Tester

The tester acts as a data verifier by sending data back to the transmission device. Used for diagnostic testing of RS-232 circuits. 4 LEDs monitor lines 2 to 3, 4 to 5, 6 to 20, and 15 to 17. Connectors: male to female DB25.

Part No. Description 100 22728CH Loopback tester ...... \$6.95 \$5.95 \$4.45

#### RS-232 Line Status Tester

Identifies simple interface problems which you can repair yourself. Targets the status of lines 2, 3, 4, 5, 6, 8, 11. 19. and 20. Connectors: male to female DB25.



Part No. Description 14285CH Check line tester ...... \$8.95 \$8.09 \$7.25

#### RS-232 Signal Adapter/Splitter

 Metal connectors: DB25 female and male. and DB9 male

Gold-plated contacts



## Flexible Multilink RS-232 Tester & Breakout Box Visually indicates

the status of lines 2, 3, 4, 5, 6, 8, 20, and 22 on the DTE and DCE sides. Provides signal status at a glance.

Complete cable "breakout" & reconfiguration. Connectors: DB25 male & DB25 female.

· Cable length: 4" Size: 3.5"L x 3.3"W x 1.0"H Includes: handy carrying case, 10 jumper wires and a device wiring chart

Part No.	Description	1	10	25
25945CH	Tester/breakout box	\$22.95	\$19.95	\$17.95



#### For detailed dimensions, please visit our website at www.Jameco.com

## Variable High-Speed Rotary Tool Kit

A multiple high-speed rotary tool kit with 6-speed selections ranging from 8,000 to 30,000 RPM, along with 40 bits and accessories, provides you all the power and precision you need to tackle almost any cutting, drilling, polishing, sanding or engraving job. With its highspeed output, plus a nylon body, you can grasp the tool lightly to perform fast rough work or delicate craftsmanship. A convenient shaft-lock button provides fast-and-easy accessory bit changing.

• 9" long variable-speed rotary tool

Description

- Drum sander wheel
   3 drum sander pads
- 2 felt buffing pads
- Disk sanding arbor

Part No.

211289CH

- 6 disk sanding pads
   7 disk grinders
- 10 rotary grinders

- Grinder dressing stone 4 rotary files One-year manufacturer's warranty

Case Dimensions
12.0"W x 7.0"D x 3.5"H

Wt. (lbs.) 3.3 ..

\$42.69 \$39.99 \$37.99

# • 2 drill bits

#### 60-Piece Bit, 1/4" Socket and **Driver Tool Kit**

High-speed rotary tool kit

This compact kit contains the most popular bits and 1/4" sockets with a comfortable cushioned, reversible ratchet driver handle.



- Drill bits: 1/16",
- 3/32", 1/8", 5/32", 3/16"
   Socket bits: 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2", 5mm, 6mm, 7mm, 8mm, 9mm,10mm, 11mm, 12mm, 13mm
- Phillips bits: #1, #2, #3
  Phillips Z bits: 1, 2, 3
  Slotted bits: 1/8", 5/32", 3/16", 1/4", 9/32"
- Hex bits: 5/64", 3/22", 1/8", 5/32", 3/16", 7/32", 1/4"
- Torque bits: T-10, T-15, T-20, T-25, T-30, T-40
- Square bits: 1, 2, 3 • 2.4" Magnetic bit adapter
- · Reversible ratchet screwdriver
- 7.5" Flexible extension Socket adapter
- 6" long nose pliers 6" adjustable wrench
- · Vinyl zipper case with organizer to find sizes fast
- Size: 8.5"L x 6.5"W x 2.2"H Weight: 3.1 lbs.

Description 218261CH 60-piece tool kit ❖ ......... \$26.79 \$24.36

Blue Part No. = Limited Quantity Available

#### 30-Pc 1/4" Bit Set with Organizer

A 30-piece bit set supplied in a neat, compact storage drum organizer allows quick access, identification, and selection of the desired bit. All the bits are compatible with power tools, rechargeable drills, and multi-bit



#### Set includes:

- Nut bits: 7/16", 3/8", 11/32", 5/16", 9/32", 1/4", 3/16"
  Hex bits: 3/16", 1/8", 7/64", 5/64"
- Torx bits: T10, T15, T20, T25, T30
- Phillips bits: #0, #1, #2, #3 Pozi bits: #1, #2, #3
- Slotted bits: #3, #4, #5, #6, #7
- · 2 screw aligners 1 bit holder

Description 227230CH 30-piece 1/4" bit w/ organizer ... \$4.45

SALE

Blue Part No. = Limited Quantity Available

#### 32-Piece Security Bit Set

These bits match the security fasteners commonly used in today's electronic products. Includes: Torx bits: #6, #8 and #10; Tri-wing bits: #1, #2, #3 and #4; Security hex bits: 5/64", 3/32", 7/64", 1/8", 9/64", 5/32" 3/16" and 1/4"; Security Torx bits: T8, T10, T15, T20, T25,

T27, T30, T35 and T40; Spanner bits: 4, 6, 8 and 10mm; Phillips bits: #1, #2, #3 and #4; and 60mm magnetic bit extension that fits 1/4" hex driver

Part No.	Description 1	10
223829CH	32-piece security bit set \$11.95	\$10.75

#### 9-Piece Assorted Drill Bit Kit

- · Variety of sizes: .014" to .126"
- · Shank diameter: .125"
- · Each kit will vary in

Part No. Description

## contents of bit sizes 131676CH 9-piece drill bit kit ..... \$9.95

#### High-Speed Steel Step Drill Bits

Drill multiple holes in thin material with the 172401CH same bit, faster and easier. Each bit does the work of many drill bit sizes. You can drill holes in most materials such as plastic, metal, and wood up to 1/8" thick.

229657CH: • Shank size: 3/8" • 2.4" long **172401CH:** • Shank size: 1/4" • 2.5" long

Part No. Description 25 **229657CH** 3/16" – 7/8" 13-step **\$14.95** \$13.45 \$12.10 172401CH 3/16" - 1/2" 6-step ...... 9.95

#### PC Board Drill Bits

**Quantity SAVE** 

 Reconditioned carbon steel bits

· High quality long lasting cutting edge • Shank dia.: .125"

16580CH Use for drilling holes in glass PC boards

Drill Part No. No. Application 16619CH .021" 75 Miscellaneous .... \$1.55 \$1.32 \$.99 .040" 59 Plated thru holes ... 1.75 1.49 (1.12)

#### 14.4 Volt Tool Kit

This tough and economical set of cordless rechargeable tools puts home improvement power in your



hands in a hurry. The kit comes with

two interchangeable 14.4V batteries and a quick charger so you never run out of power. Everything is contained in one convenient case so you won't forget one of your essential tools.

- Drill/driver—Variable speed reversing with a 3/8" keyless chuck, a 16 position clutch, metal gears, and bronze bushings
- Detail sander—Triangle shaped for sanding in small and difficult-to-reach places; counter-
- balanced drive shaft with ball-bearing support Jigsaw—Adjustable base plate, 0.5" stroke, and
- Flashlight—Has adjustable head so you can direct the beam where you really need it

Part No.	Description	Price
235504CH	14.4 volt tool kit	\$54.95

#### **Adjustable Cordless Screwdriver**

· Adjustable handle can be used folded or unfolded

1750 SPM operation

- Thumb switch for reverse and forward action
- No load speed: 180 RPM
- · Clutch operating torque from 4 to 21kg-cm
- 3.6V rechargeable battery
- Weight: 1.6 lbs. • Size: 10.5"L x 1.5" Dia.

Includes: 6VDC @ 300mA power supply and screwdriver bits, slotted and Phillips

Part No.	Description 1	10
176680CH	Cordless screwdriver \$36.95	\$33.26

#### Mini-Drill and Stand

This Mini Drill is excellent for drilling through circuit boards and protoboards. The drill comes with an array of drilling, grinding and sanding attachments. Drill stand is designed to function like a drill press.



Part No. Description Wt. (lbs.) 26702CH MS398 drill 0.8 ... \$29.95 \$26.95 \$23.95 26711CH MS399 stand 1.8 ..... 19.95

#### **Lowest Price Guarantee**

Found a product at a lower print advertised price?

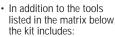


We'll beat that price by 10% right down to our cost!

## Professional Electronic Technician Tool Kits for Every Situation!

#### 27-Piece Technician's Tool Kit

All the essential technician's tools in a durable canvas carrying case.



- side cutting pliers - 5.3" precision range
- long nose pliers Solder wick
- Alignment driver Nut screwdriver (1/4")

# SALE

work for technicians, engineers, students, etc.

- In addition to the tools listed in the matrix below, the kit includes:
- Screwdriver handle - 6-piece mini-
- hammer set - 5 piece of double edge blade
- PLCC extraction tool
- · Carrying case has outer velcro pockets to store paperwork, etc.
- Complete your assortment with a multimeter (See pages 211-212)
- Size: 17.6"L x 12.8"W x 4.0"H Weight: 9.2 lbs.

Part No.	Description	1	5
136311CH	55-piece tool kit	\$124.95	\$112.46

## 51-Piece Tech Tool Kit

Essential kit for electronic machine Quantity SAVE maintenance and repair jobs!

· In addition to the tools listed in the matrix below, the kit includes:

- 2 nut drivers Solder pen

 Case features removable pallets, a combination lock and a cushioned black plastic handle

Size: 12.5"L x 17.5"W x 3.5"H
 Weight: 10.4 lbs.

Part No Description 26681CH 51-piece tool kit \$94.95 \$73.15

#### 55-Piece Tech Tool Kit

An assortment of tools for general & precision





- Testing driver - Alignment driver - Solder wick - Parts tube

the kit includes:

- 5" & 6" side cutter

- 5" & 6" long nose pliers

- 8" combination pliers

- 9.5" water pump pliers

- PVC insulated tape 5-piece file set – Oil can

- 6" stainless scissors - Carpenter hammer

 Carrying case has two removable pallets. adjustable compartments, and combination locks Size: 18.0"W x 13.0"D x 4.0"H • Weight: 16.0 lbs.

Part No. Description Master electronic tool kit ... \$124.95 \$117.95 218245CH

57-Pc. Master Electronics Tool Kit

with room for spare parts or special equipment.

In addition to the tools listed in the matrix below,

Simply every tool needed for field repair or

installation. All in a handsome lockable case,

#### 100-Piece Professional **Electronics Tool Kit**

Kit for field technicians and engineers!

- · In addition to the tools listed in the matrix left, the kit includes:
- Computer/polarity circuit tester
- Mini vacuum cleaner
- Cassette head cleaning fluid 3.6V cordless

screwdriver kit (bits included)

 Aluminum case features removable pallets, surface-type locks, and black plastic handle Size: 18.0"L x 14.0"W x 6.0"H • Weight: 15.5 lbs.

Part No. Description

242851CH 100-piece tool kit ...... \$199.95 \$189.95

#### 114-Piece Tech Service Tool Kit

- · In addition to the tools listed in the matrix left, the kit includes:
- 40-pc socket pack
- 6" side cutter - 6" long nose plier
- 6" slip joint plier
- carpenter hammer - 3 piece trimmer set
- stainless steel spring hook - solder wick
- 8" combination plier 2 removable pallets Size: 18.5"L x 13.8"W x 6.7"H
   Weight: 22.8 lbs.

Part No. Description

149024CH 114-piece tool kit ..... \$279.95 \$251.99

## Free Technical Support



Our knowledgeable Tech Support department is ready to answer your questions. Just call us!



• Size: 16.2"W x 13.0"D x 3.0"H · Weight: 7.1 lbs. Description 218229CH Technician's tool kit \$94.95 \$76.95

#### 28-Piece Cellular Phone Services Tool Kit

This kit is perfect for mobile phone repair.

- · In addition to the tools listed in the matrix below, the kit includes:
- 4" micro cutting pliers – 5" snipe nose pliers
- Hot air tip
- Self igniting micro torch S-needle tip
- Size: 11.9"L x 9.8"W x 1.9"H Weight: 3.2 lbs.
- Part No. Description 218202CH Cellular phone tool kit

#### Quick-Reference of Professional Tool Kit Contents

Parts included in kits	218229CH	218202CH	26681CH	136311CH	218245CH	242851CH	149024CH
3-prong holder				1	1	1	1
Anti-static strap				1		1	1
Brush	1		1	1	1	1	1
Crimping tool	1 (7-way)			1 (7-way)	1	1	1
Desoldering pump	1		1	1	1	1	1
Digital Multimeter	1		1			1	
Drill set							1
Files, needle	2-pc		2-pc			6-pc	5-pc
Flashlight	1			1	1	1	1
Forceps							1
Heat sink				1	1		1
IC extractor	1			1	1		1
Inspection mirror					1		1
Measuring tape, 10-foot			1		1		1
Pliers, 8" lineman				1		1	
Pliers, bent needle nose			1	1	1	1	1
Pliers, diagonal cutter			1	1		1	1
Pliers, flat nose			1	1		1	1
Pliers, needle nose							
Pliers, snipe nose		1					1
Scissors			1		1	1	
Screwdriver set	7-pc	12-pc	8-рс	3-рс	8-pc	12-pc	9-pc
Screwdrivers, precision		2-pc	6-рс	6-рс	6-рс	6-pc	6-pc
Solder core	1	1		1	11	1	1
Soldering aid kit, 3-pc		1 (6-pc)	1	1	1	1	1
Soldering iron	1 (30W)		1	1 (30W)	1 (30W)	1 (30W)	1 (25W)
Soldering stand	1		1		1	1	
Tape, electrician	1					1	1
Tweezers	1	1	1	2	1	1	1
Utility components box	1		1		1	1	1
Utility knife	1		1	1	1	1	
Wire stripper							1
Wrench, adjustable	1			1	1	1	1
Wrench, hex key	7-рс		7-рс	7-pc	7-рс	7-pc	7-pc
Wrench set					6-рс	5-pc	10-рс
Total Pieces	27	28	51	55	57	100	114
Price	\$76.95	\$43.19	\$94.95	\$124.95	\$124.95	\$199.95	\$279.95

#### Economy Tool Kits for Every Budget!

167206CH

14189CH

#### 11 & 12-Piece Lightweight **Computer-Service Tool Kits Quantity SAVE**

- · Both kits include:
- 2 nut drivers: 3/16", 1/4"
- 3-claw parts holder
- 1-pc hex key wrench
- IC extractor
- 4-pc screwdriver set
- Tweezers

#### 167206CH: 11-Piece Tool Kit · In addition this kit includes: Clear components,

- tube holder • Size: 8.5"L x 5.9"W x 1.3"H
- · Weight: 1.1 lbs.

#### 14189CH: 12-Piece Tool Kit

- · In addition this kit includes: 14-16 pin IC inserter/straightener
- Size: 9.0"L x 5.8"W x 1.3"H
   Weight: 1.2 lbs.

Part No.	Description	1	10	25
167206CH	11-piece tool kit \$12.9	5	\$11.01	\$8.26
	12-piece tool kit 16.9			

#### 20-Piece SAE Computer Tool Kit

- · The kit includes:
- 1-pc hex key wrench
- 30W soldering iron
- Adjustable wrench
- Needle nose plier
- 6-pc screwdriver set - 6' solder - Tweezers
- 8" wire cutter/stripper (U
- Clamping tweezers
- 3-pronged parts retriever
- IC extractor Spare parts tube
- Flashlight with battery Heavy duty molded case - 2 nut drivers (1/4" & 3/16")
- Size: 11.9"L x 9.2"W x 2.0"H · Weight: 3.5 lbs.

Part No.	Description	1	10	100
170966CH	Computer tool kit	\$24.95	\$22.46	\$20.21

## **Save Money! Buy a Second?**

Your company pays you a good dollar for a reason - you're worth a

lot to your company when you are creating a solution.

So think about how much time you spend locating tools. At your hourly pay rate, the time lost probably exceeds the cost of a duplicate set of tools.

You may have a well-outfitted bench, but some of us use hand tools in another location. And for some of us, if you spend less time searching for frequently used tools, you could save the company money in the long run and increase your productivity!



#### 24-Piece PC Premium Tool Kit

- 3.2mm x 75mm slotted screwdriver
- #0 x 75mm Phillips screwdriver
- · 3 prong holder
- Spring tweezer
- Spare parts tube
- IC extractor
   Torch
- · Extension bar for ratchet bits
- · Adjustable ratchet screwdriver
- Side cutter pliers · Long nose pliers
- 5mm and 7mm slotted bit #1 and #2 Phillips bit
- · T10, T15, T20, T25, and T30 Torx bit
- · Socket adapter 1/4" and 3/16" nut
- Size: 8.4"L x 5.9"W x 1.4"H
   Weight: 1.3 lbs.

Part No.	Description	1	5
226085CH	24-piece premium tool kit	\$17.95	\$14.36

#### 26-Piece SAE Hobby Tool Set

- 4-1/2" long nose pliers
- 4-1/2" diagonal cutting pliers
- #1 & #2 Phillips bits
- #1 & #2 pozi bits
- 3/16" & 1/4"
- slotted bits
- · Hex to 1/4" driver adapter
- T-10, T-15, and T-20 Torx bits Tweezers
- Driver handle Compact carrying case
- 3" extension bar for 1/4" drive
- · 3 slotted and 3 screw driver precision set
- 3/16", 1/4", 11/32" and 3/8" sockets for 1/4" drive
- Size: 12.0"L x 9.0"W x 2.0"H Weight: 1.5 lbs.

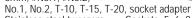
Part No.	Description	1	10	25
170069CH	26-pc. SAE tool set	\$17.95	\$16.16	\$13.69

#### 26-Piece Metric Hobby Tool Set

 6 screwdrivers: SALE Phillips #0, #1, slotted 0.05" 0.08", 0.09", 0.12







- Stainless steel tweezers
- Extension bar Handle
- Sockets: 5, 6, 8, 10mm
- · 4" side cutter
- 4" long nose pliers
- · Plastic carrying case

Lower \$\$\$

• Size: 6.4"L x 4.1"W x 2.0"H • Weight: 1.2 lbs.

26-piece tool set 3 . \$9.09

Blue Part No. = Limited Quantity Available

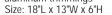
#### 40-Piece Electronic Tech Tool Kit

- · The kit includes:
- Wire cutters/stripper
- Adapter bit for sockets
- Pocket clip screwdriver
- Potentiometer
- alignment tools
- T10-T25 reversible Torx screwdriver bits - 3/16"-1/2" S.A.E. nut driver sockets
- 6mm-12mm metric nut driver sockets - Slotted and Phillips screwdriver bits
- 10-pc screwdriver set
- Extra long 3-claw parts holder IC inserter w/ pin straightener
   IC extractor

 Size: 9.5"L x 6.8"W x 1.4"H
 Weight: 1.7 lbs. Part No. Description 1 10 119183CH 40-piece tool kit ...... \$21.95 \$19.76 \$15.80

#### **Professional Tool Case**

- · Aluminum framed
- · Padded interior and adjustable dividers (6 sections)
- Detachable tool organizer for easy access
- · Color: black with aluminum trimmings



• Wt.: 8.1 lbs. • Blue Part No. = Limited Qty Available

art No.	Description	<sub>638,95</sub> 1	10
49016CH	Professional tool case 3		\$31.45

#### **Aluminum Tool Case**

This heavy-duty case is made of lightweight durable aluminum. A single inside panel and adjustable compartments easily carry hand tools, small soldering equipment, hand-held test equipment, and more.



• Size: 19"L x 14"W x 6"D

Part No.	Description	1	į
261884CH	Tool case	\$51.39	\$44.15

#### **Heavy-Duty Tool/Equipment Case**

Made of lightweight aluminum, this tool case is designed to take rough field use. Case includes tool pallet, egg carton foam lid, and 2.5" thick pre-cut foam bottom. Ideal for carrying fragile instruments, test equipment, and small hand tools.



• Size: 19"L x 14"W x 6"D

Part No.	Description	1	5
261876CH	Tool/equipment case	\$51.39	\$44.15

#### **Kwik Change Tool/Parts Tote**

Versatile storage tote for organized storage space. Front drop panel reveals four slide-out storage boxes and includes two interchangeable racks and one double deep rack. Bulk storage



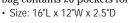
beneath lid for larger tools and exterior rack for small tool storage. Ruler on front for added convenience.

• Size: 20.5"H x 12"W x 14.5"D

Part No. Description \$49.85 \$44.95 261892CH Tool/parts tote ...... \$42.75

#### 2-In-1 Zippered Tool Bag

A high-quality tool tote case that can be used as two separate bags or zipped together as one case. The first bag has two large pouches for documents & paperwork or large items. The second bag contains 20 pockets for tools.



Part No. Description 261868CH Tool/tote case ...... \$24.25 \$22.09



#### 17-Piece Offset Ratchet and Socket Driver Set SALE

This offset ratchet and socket driver set includes 6 hexagon sock-



ets made from quality hardened carbon steel. The handle features a 1/4" male head drive to accommodate the accompanying bits & sockets.

- Phillips bits: #1 and #2
   Pozi bits: #1 and #2
   Torx bits: T10, T15 & T20
   Slotted bits: 4, 5 & 6mm
- Hex sockets: 3/16", 7/32", 1/4", 5/16", 11/32" & 3/8"
- · Reversible driver handle with 1/4" male head

Part No.	Description	1	5
226069CH	Offset ratchet & socket O	\$5.49	\$5.25

Blue Part No. = Limited Quantity Available

#### Twin Wrench Driver Set

The handle of this twin wrench driver set has two tips, horizontal and vertical for those hard-to-reach areas.



- · Non-slip double ended driver
- · Three slotted bits: 4mm, 5mm, and 6mm
- Philips bits: #1 and #2
   Pozi bits: #1 and #2
- Torx bits: 10mm, 15mm, and 20mm

Part No.	Description	1	10
223811CH	Twin wrench driver set	\$3.99	\$3.07

#### 6-Pc Long-Neck Screwdriver Set

· Three slotted: 0.09"Dia. x 6.6"L 0.12"Dia. x 6.6"L



0.12"Dia. x 6.64"L: No.1, 0.16"Dia. x 9.61"L; No.2, 0.09"Dia. x 6.65"L

Part No.	Description	1	10	50
99451CH	6-pc. screwdriver set	\$8.95	\$8.06	\$7.25

#### 25-Piece Screwdriver Grab Bag

25 assorted sizes and types of screwdrivers in a box. Types may include slotted, Phillips, Torx or star.



Part No.	Description	SALE	1	10
235070CH	Assorted scre	ewdrivers \$15.99	14.39	\$13.99

#### JAMECO Pocket Screwdriver

Phillips & Flat head

Size: 6"L

Weller

· Pen clip for pocket storage

Part No.	Description	1	10	100
127271CH	Pocket screwdriver	\$1.55	\$1.45	\$1.19

#### 11-Pc Precision Screwdriver Set

- 0.9, 1.2, 1.4, 1.8, 2.4 and 3mm slotted screwdrivers
- Phillips #00, #0 and #1 screwdrivers
- A\\\/I
- · Magnetic pick-up

Part No.	Description	1	
226093CH	Precision screwdriver	\$4.49	\$4.2

#### 7-Piece Insulated Screwdriver Set

- · Tapered handle for sure grip
- Precision ground shank
- · Hardened, magnetic tips

Includes: 0.4/0.8/1.0/1.2mm slotted; #0/1/2 Phillips



#### 6-Pc Precision Torx Screwdriver Set

• T5 and T6 x 50mm Torx screwdrivers

T7. T8. T9. T19 x 50mm Torx hex screwdrivers



#### Heat Guns

#### 1000-Watt Heat Gun

· Dual heat setting: 600°F/1100°F

**Dual-Setting** 

· Use with heat

III listed

Part No.

76865CH

217816CH

shrink material

· Works with spot-dry

paint, plaster, spackle cure adhesives

tiles and linoleum without chipping

Heat gun ...... \$39.95

Heat shrink attachment 1.95

· Will remove adhesive-applied

Thaw pipes, frozen locks

and loosen rusted bolts

• Size: 9.3"L x 7.0"W

· Weight: 1.8 lbs.

Dual heat setting: 600°F/1100°F

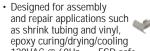
- · Works with spot dry paints, plaster, spackle, and cure adhesives
- · Use with heat-shrink material
- · Thaw pipes, frozen locks, and loosen rusted bolts
- · Input voltage: 110-120 VAC

Part No.	Description	1	6	12
254924CH	Heat gun \$42.55	5	\$41.10	\$36.85

**Heat Gun/Stripper** 

#### 250-Watt, 3-Setting **Industrial Heat Gun**





120VAC @ 60Hz • ESD safe

· Long-life heater and fan components · 3-wire grounded plug; 6' cord

	J		9.			_
Part No.		Product No.		Wt. (lbs.)	1	10
191943CH	1	6966C		1.2	\$119.95	\$107.95

ETL listed

#### WAHL®

#### 1,200°F Portable **Heat Gun**

- · Portable and flameless heat
- Temperatures up to 1,200°F (650°C)
- · Typical applications: shrink tubing, activate adhesives and potting compounds, form plastics and
- laminates and preheat flux Each cartridge (disposable butane lighter) provides approximately
- 20 minutes of heat Includes disposable gas lighter
- Electronic ignition
- Size: 4.8"L x 0.9"W
   One-year warranty

Part No.	Description	1	10
150691CH	Portable flameless heat gun .	\$26.95	\$24.25



217832CH Air spreader ..... 1.95

See page 95 for Heat Shrink Tubing.

217816CH

217832CH

10

\$35.95

1.85

1.66

25

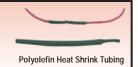
\$31.95

1.75

1.24

Quantity SAVE





#### 6-Pc Precision Screwdriver Sets

34041CH includes: 3/64". 1/16", 5/64", 5/32", 1/8" & 9/64"

slotted screwdrivers 34059CH includes: 3/64"#0, 1/16"#0, 5/64"#0, 3

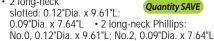
1/8"#1 and 9/64"#1 Phillips screwdriver

/32 #U, 👢	-	-	
	34	041CH	
rs			
1	1	10	5
	\$3.59	\$3.23	\$2.9

Part No.	Description	1	10	50
34041CH	Slotted set	\$3.59	\$3.23	\$2.91
34059CH	Phillips set	3.59	3.23	2.91

#### 6-Piece Screwdriver & Pliers Set

- · One micro cutting nipper
- · One micro flat nose pliers
- 2 long-neck





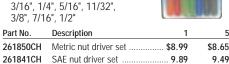
Description 99565CH Screwdriver/pliers ...... \$13.49 \$11.47 \$8.60

#### 7-Piece Nut Driver Sets

- Premium hardened steel sockets
- Large colored handles

261850CH: Metric 5mm, 6mm, 7mm, 8mm, 9mm, 10mm & 11mm

261841CH: SAE







#### Xcelite Needle Nose Pliers

217891CH (submini needle nose): Serrated jaws

· Positive gripping of fine wire or subminiature components





217998CH: Smooth jaws

General purpose for pick-up and wire forming

Part No.	Prod. No.	Description 1	10
217891CH	L4	4" mini needle nose \$14.95	\$13.69
217998CH	LN54G	5" thin long nose 14.95	13.46

#### **Precision 5-Piece** Stainless Steel Pliers Set



Spring return

 Insulated handles Includes:

One 3.5"L micro cutting nippers



Part No.	Description	Wt. (lbs.)	1	10	25
73120CH	5-piece set	0.6 \$17.	95	\$16.16	\$14.54

#### Half-Round Long Nose Pliers

Drop forged steel

· Heat treated

 Spring return action
 Vinyl grips Length: 4.5" Knurled jaws

Part No. Description 10 50 1 177607CH Half-round pliers \$4.95 \$4.49 \$3.95 \$3.59

## 5" Cutting Pliers

Recommended for cutting copper and soft lead wires. Ideal for precise circuit board work. Spring loaded.





from Paladin Tools® see page 232.



#### 5.3" Flat and Half-Round **Long Nose Pliers**

· Stainless steel · Spring return

· Durable rubber handles • 5.3" length w/ 1.4" plier nose 35473CH

35473CH/35490CH: Knurl jaws

195531CH: Smooth jaws Quantity SAVE

Part No.	Description	1	10	50	100
35473CH	Flat long nose	\$5.49	\$4.94	\$3.95	\$2.96
195531CH	Flat long nose	4.95	4.49	3.95	3.49
35490CH	Half round	5.49	4.94	3.95	2.96

#### 5-Piece Pliers Set

 Precision machined heat-treated jaws

 Vinyl insulated handles Includes: 6.5" needle

nose; 7.5" lineman's; 8" slip joint; 8" groove joint & cutting pliers

Part No.	Description 1	5
261905CH	Pliers set \$9.75	\$9.25

#### Xcelite<sup>a</sup> **Diagonal Cutters**



Manufactured from the finest forged alloy steel with polished head and cushion comfort handles.

· Flush cutting edge

· Cutting edges machine ground and electronically hardened for extended life

Forged alloy steel w/ polished head

Handle coil springs for fast cutting action

ESD safe cushion grips for maximum comfort

Part No.	Prod. No.	Description 1	10
217921CH	MS54J	4" oval head-flush \$15.95	\$14.36
217955CH	S475JS	4" relieved head-flush 14.95	13.46
217904CH	MS549J	4" tapered head-flush 14.95	13.46
217867CH	MS545J	4" slim line tapered head-flush 14.95	13.46

## **Cutting Pliers**

#### Flush Cut

\$4.55

· Stainless steel

Side cutting flush cut

· Leaf spring for smooth controlled action

Part No. Description 261788CH Cutting pliers ...... \$6.95 \$6.55

## We're Listening to **Your Requests**

Fmail us 24/7 at NewProducts@Jameco.com with suggestions for products you'd like to see in future catalogs.

#### **Xcelite** Cutters and Pliers







· Spring returns 146712CH: Micro series wire cutter - flush; 6"

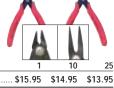
146739CH: Diag. wire cutter - semi-flush; 4" 146721CH: Long needle nose pliers - flat; 5"

Part No.	Product No.	1	10	50	100
146712CH	170M	\$5.75	\$5.19	\$4.69	\$4.19
146739CH	MS54V	13.95	12.95	11.95	10.95
146721CH	MN7776V	16.95	15.95	14.95	13.95

#### Xcelite Shearcutter/Pliers Set

- · Improved handle grip
- for control and comfort Non-glare black finish carbon steel
- Size (plier): 5.6"L
- Size (shearcutter): 5.2"L

Part No.	Product No.	
152055CH	S2K	\$15



4"	Diagonal	Wire	Cutter
_ D	wan fanasal akas	.1	

- Drop forged steel · Heat treated
- Vinyl grips
- Spring return action
- Polished head
- · Length: 4"

Part No.	Description	1	10	50	100
179901CH	Wire cutter	\$5.49	\$4.94	\$4.45	\$4.00

## 4.3" Diagonal Wire Cutter

- · Cuts component wire up to 1.2mm thick
- Stainless steel

217867CH

- · Durable rubber handles
- · Jaws are designed for flush cutting
- 4.3"L x 2.1"W with 0.5" cutting blade

Part No.	Description	1	10	50	100
35481CH	Wire cutter	\$5.59	\$4.99	\$4.55	\$3.99

## 5" Diagonal Wire Cutter

- Cuts component wire up to 1.2mm thick and 0.08mm fine wire
- Insulated handles
- · Jaws are designed for flush cutting
- 5.0"L x 1.8"W w/ 0.5" cutting blade.

	0			
Part No.	Mfr. Cross Ref. No.	1	10	25
161411CH	Wire cutter	. \$7.49	\$6.74	\$6.07

## **Heavy Duty Tubing Cutter**

· Clever design eliminates spiraling, resulting in straight clean cuts with no burrs

Cuts copper, brass, aluminum tubing and thin-wall conduit

up to 1-1/8" diameter · Fold-away reamer

Extra cutter wheel stored in body

· Lightweight aluminum body and knob

Telescopic wheel-feeding mechanism keeps turning radius constant • Length: 4.8"

Part No.	Description	1	5
227475CH	Tubing cutter	\$17.95	\$17.05

#### 5" Wire Cutter/Stripper

- · Strips and cuts 20-24 AWG wires
- · Insulated grips
- · Spring loaded for easy use Cutter angled @ 45 degrees
- for use in tight places





#### 5" Wire Cutter/Strippers

- · Insulated handles
- · Spring return
- Tempered steel cutting edge
- Size: 5.0"L" x 3.0"W
- · One-year warranty

78991CH: 10-30 AWG (screw adjustable)

215888CH: 10-24 AWG

(dial to adj	ust for wir	e gauge)	78	3991CH	21588	B8CH
Part No.	Mfr. Cross	Ref. No.	1	10	50	100
78991CH	HT108	\$3.	95	\$3.49	\$2.95	\$2.59
215888CH	JE-2022C	3.	95	3.49	2.95	2.59



## 6" Wire Cutter/Strippers

161226CH

161234CH

- · Contoured cushion-grip handles
- · Wire size markings, in AWG and mm
- Size: 6.0"L x 2.0"W

#### 161226CH: Premium T-5

- 10-18 AWG solid
- · Color: yellow

#### 161234CH: Premium T-6

- · 16-26 AWG stranded
- Color: red

#### 161218CH: Standard T-6

- 16-26 AWG stranded

• Color: red				
Part No.	Prod. No.	Description	1	10
161226CH	ID45-215	T-5 10-18 AWG	\$16.75	\$15.91
161234CH	ID45-216	T-6 16-26 AWG	17.79	16.91
161218CH	ID45-121	T-6 16-26 AWG	13.59	12.95



## 6.6" Wire Stripper

- · Wire stripper, cutter, steel wire cutter, and wire loop Scale: AWG and mm
- Strips and cuts wires
- from 20-30 AWG
- Size: 6.6"L x 2.0"W

Part No.	Product No.	1	10	50
159290CH	HT5023 \$9.0	95	\$8.96	\$8.06



#### 7-in-1 Wire-Handling Tool

- · Wire stripper, wire cutter, steel wire cutter, pliers and wire loop
- Solderless crimping tool
- Scale: mm and inch



See page 231 for Molex Hand Crimp Tool and Extraction Tool.

#### **Automatic Wire Strippers**

175097CH: Spring load grip

- Size: 7.0"L x 2.5"W
- · Weight: 0.8 lbs.

Includes: Wire stopper for desired strip length

- Size: 6.5"L x 3.0"W
- · Weight: 0.3 lbs.

237219CH: Size: 5.2"L x 2.7"W • Weight: 0.2 lbs. Ougntity SAVE

	- · · - · · · · · · · · · · · · · · · ·		,
Part No.	Description 1	10	25
175097CH	Strips 8-22 AWG \$16.95	\$15.26	\$13.73
202841CH	Strips 3-24 AWG 12.45	10.58	7.94
237219CH	Strips 14-24 AWG 9.95	8.46	6.34



**Quantity SAVE** 

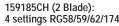
159118CH

## **Rotary Coax Cable Strippers**

#### 2 and 3 Blade

159118CH (3 Blade): 2 settings RG58/59/62

- For cable sizes 4-10mm Size: 4.2"L x 1.3"W
- · Color: black



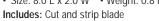
- For cable sizes 4-12mm
- Size: 3.9"L x 0.7"W
   Color: gray 159185CH Includes: Hex key wrench for adjusting blade

Par	t No.	Product No.	1	10	25
159	9118CH	HT312B (3 blade)	\$13.95	\$11.86	\$8.89
159	9185CH	HT332D (2 blade)	13.95	12.56	11.30

## Crimp/Cut/Strip Tool

For RJ11 (6P) and RJ45 (8P) Modular Plugs

- · Repeatable crimp action for consistent highquality connections
- Push-down locking mechanism
  - Size: 8.0"L x 2.0"W Weight: 0.8 lbs.

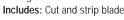


Part No.		ss Ref. No.	1	10
174684CH	TTK071	\$26.9	5 \$24	.26

#### **Telemaster Modular Connector** Crimp/Cut/Strip Tool

For RJ11 (6P) and RJ45 (8P) Modular Plugs

- · Repeatable crimp action for consistent high quality connections
- Size: 6.0"L x 2.0"W
- · Weight 0.8 lbs.



Part No. Product No. 10 161091CH ID30-496 ......\$39.95 \$35.99

## **Ratchet Crimp Tool**

For RJ11 (6P) and RJ45 (8P) Modular Plugs

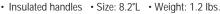
- · Repeatable crimp action for consistent high-
- quality connections Śize: 8.5"L x 2.2"W
- Weight: 1.2 lbs.

Includes: Cut and strip blade

Part No.	Mfr. Cross Ref. No.	1	10
174676CH	TTK070	\$39.95	\$35.99

#### **Professional Modular** Connector Crimping Tool

- · Spring return action
- 6mm and 12mm stripping guide
- Crimp modular plugs
- without changing dies
- Crimps 10P10C, RJ45: 8P8C, RJ11 and RJ12: 6P6C, and 4P4C



Part No.	Product No.	1	10	2!
181147CH	HT200	. \$54.95	\$49.49	\$44.55



#### **Modular Connector Crimping Tool Set**

- · 8" metal modular crimping tool
- · Cuts, strips and crimps Crimps RJ11 and
- RJ45 plugs Carrying case: blue hard plastic, 8.0"L x 10.5"W x 2.0"H
- Weight: 2.1 lbs.

Includes: 90 modular plugs, 40 pcs. 4P4C, 30 pcs. 6P6C, 20 pcs. 8P8C



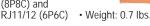


- Cable stripper and wire cutter Size: 8.0"L
- · Weight: 1.8 lbs.
- Crimps 6P and 8P plugs (6P2C, 6P4C, 6P6C, 8P2C, 8P4C, 8P6C, 8P8C)

Part No.	Description	1	10	25
114526CH	RJ11/RJ45	\$24.95	\$22.49	\$20.25

#### Ratcheted Modular **Connector Crimping Tool**

- Insulated grip
- · Ratcheted type Metal • 7.5"L
- Crimps RJ45 (8P8C) and



159311CH RJ45/11/12 ..... \$21.95 \$19.95

#### Ratcheted BNC Crimping Tool

- · Crimps RG58, RG59 RG62, RG174 and fiber optic
- Hex sizes: 0.043" 0.068", 0.100"
- 0.137", 0.213", 0.255"
- · Weight: 1.1 lbs. Size: 8.5"L x 2.5"W

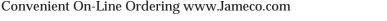
Part No. Product No. 114534CH HT-336G ......\$23.95 \$21.59 \$19.45

All steel construction

#### **Lowest Price Guarantee**

Found a product at a lower print advertised price? We'll beat that price by 10% right down to our cost!





#### **Hex Crimp Tools**

· Use with RG-58 and RG-59 connectors with up to a 3/8" ferrule 261745CH: 1.7mm



standard crimp for crimping center conductor on BNC & TNC connectors; up to 3/8" ferrule

261737CH: Ferrules up to 1/2"

Part No.	Description	5
261745CH	Hex crimp tool (3/8") \$19.75	\$18.55
261737CH	Hex crimp tool (1/2") 19.49	18.29
	<u> </u>	



#### **Solderless Terminal** Crimping Tool

· Crimps solderless terminals: 18-22 AWG red, 14-16 AWG blue and 10-12 AWG yellow Size: 9.0"L x 2.0"W **Quantity SAVE** 

i dit ito.	i i oddot. ivo.		10	
72995CH	HT303	\$18.95	\$16.11	\$12.08
<b>~</b> ®				

#### (IDC Connector Crimping Tool · Crimping distance:

- 27.5mm to 6mm (with attachment)
- Cushioned red handles · Crimp insulation
- displacement connectors
- Use for IDC socket connectors, pg 113
- Size: 9.2"L x 3.0"W Weight: 1.1 lbs.

Part No.	Product No.	1	10	25
73251CH	HT214\$	15.95	\$14.39	\$12.95



#### **Non-Insulated Terminal D-Sub Crimping Tool**

#### 14-26 AWG

- · Heavy-duty metal tool with cutter and insulated handles
- For computer pins and sockets, D-sub 26-28 AWG wire
- · For butt-insulated connectors, 22-26 AWG wire
- · For telephone spade lugs, 22-26 AWG wire
- For non-insulated connectors, 20-22 AWG wire
- · For non-insulated connectors, 14-18 AWG wire
- Coiled spring return
   Size: 7.3"L x 1.5"W

Part No.	Product No.	1	10	25	100
99442CH	HT202A	\$9.49	\$8.55	\$7.69	\$6.95



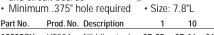
· Crimps D-sub pins and sockets For use w/ P/Ns 43377CH, 43369CH



(H) Nibbling Tool

 Perfect for cutting, trimming, or notching sheet metal up to 18 AWG

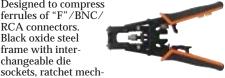
 Time-saver when working on prototyping, chassis, and circuit boards



Part No.	Prod. No.	Description 1	10	25
18809CH	HT204	Nibbling tool \$7.95	\$7.16	\$6.44
29330CH	HT204B	Replcmnt bit 4.49	4.04	3.64

#### **Compression Multi-Tool**

Designed to compress ferrules of "F"/BNC/ RCA connectors. Black oxide steel frame with interchangeable die



anism with manual release disengages after a complete cycle securing a fully compressed ferrule. Integrated coax cutter for cutting cables to appropriate lengths.

Part No.	Description	1	5
261761CH	Compression multi-tool	\$35.65	\$33.85

#### "F" Connector Compression Tool

Compresses RG-6 and RG-59 Snap-N-Seal type connectors.

<ul> <li>Length:</li> </ul>	5"		
Part No.	Description	1	5
261753CH	Compression tool \$29.9	5	\$28.45

#### 8-Piece Fold-Up **Torx Key Set**

· 3.7" long handle

Torx bits: T9, T10, T15, T20, T25, T27, T30, T40 • Size: 3.7"L x 1.2"W

Part No.	Description	1	10	100
176006CH	Torx key set .	<del>\$10.49</del> \$6.35	\$5.76	\$5.23

#### 25-Piece Hex Key Set

• 12-piece SAE long arm with sizes from 1/16" to 3/8"

13-piece Metric short arm with sizes from





#### Rivet Tool

Sets 3/32", 1/8", 5/32" & 3/16" rivets without adjustments. Simply change

the appropriate nozzle, slip the rivet into the pre-drilled hole, and you have a perfect fasten. Spring-loaded handle for automatic ejection of the mandrel.

Part No.	Description		
226114CH	Rivet tool	\$5.59	\$5.29
226288CH	1/8" x 1/4" long rivet (100 pk)	2.19	1.65
226296CH	3/16" x 1/4" long rivet (100 pk)	3.49	2.65

#### 1/4-Watt & 1/2-Watt Resistor **Lead Forming Tool**

· Watt size indicates appropriate package size



18809CH

· Excellent for capacitors also

 Lead spacing: 1/4W: 0.4"-1.5"; 1/2W: 0.5"-1.5" Size: 5.4"L x 1.5"W

Part No.	Description 1	10	50
106884CH	1/4W & 1/2W <b>\$2.79</b>	\$2.65	\$2.52

#### 9-in-1 Pocket Multi-Tool

- Bottle opener
   Metal file
- Flashlight · Knife blade · Wire cutter
- Nail pick · 2 handyman/long-nose pliers
- Phillips screwdriver
- Folded size: 2.75"L

Part No. Description 227264CH 9-in-1 pocket multi-tool \$3.99

#### Multi-Tool Storage Rack

Organize and store 106 of the most common tools in 24" of wall space. Made of

durable plastic material, it easily mounts on a wall with the included screws.

Part No. Description 2393 37

WU.	Description		4	
53CH	Storage rack \$5.99 \$5.3	9	\$4.85	\$4.3

#### **Heavy Duty Staple Guns**

The standard stapler is perfect for contractors, home do-it-yourselfers, and specialty trade applications. We also offer the cable tackers that are ideal for a wide variety of applications such as telephone wire, cable TV, hi-fi systems, alarm systems, intercommunications and general electrical contract work. Both are made of durable nickel-plated steel for heavy-duty use. Rubber grip assures comfortable operation.



242886CH

\$14.95 \$13.58

- Handle locking
   Easy rear loading
- Adjustable high impact tension knob
- Hand stop for safe stapling control
- Visual reload window & rear loading

#### 227969CH: T-50 Staple Gun

- Handles 5/16"; 3/8", 1/2", & 9/16" staples
- · Use T-50 type staples, below

#### 242878CH: Cable Tacker Gun

- · 4.8mm maximum cable diameter, 1/4" width
- Use P/Ns 244988CH & 245008CH tackers, below

#### 242886CH: 4-in-1 Staple/Tacker/Nail Gun

227969CH T-50 staple gun .....

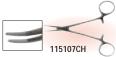
· Handles T-50 staples; T-25 cable tackers; 14mm long pin nails; 12-14mm long brad nails Part No. Description

242878CH	Cable tacker gun \$18.89 15.99	14.53
242886CH	4-in-1 staple/tacker gun \$18.39 13.29	12.08
Staples		
Part No.	Description 1	5
230295CH	T-50, 5/16" staples, 1250 ea \$2.25	\$2.05
230316CH	T-50, 1/2" staples, 1250 ea 2.69	2.46
230324CH	T-50, 9/16" staples, 1250 ea 2.95	2.67
244988CH	3/8"L tackers, 1000 ea \$1.391.25	1.13
245008CH	9/16"L tackers, 1000 ea \$1.591.45	1.29
245016CH	T-25, 1/2"L tackers, 1000 ea. \$1.551.35	1.20
245032CH	T-25, 9/16"L tackers, 1000 ea. \$1.791.55	1.38

#### 5" Steel Hemostats

· Grade 410 A.I.S.I. stainless steel

Three locking positions



	Mfr.Cross		- 1131	07011	
Part No.	Ref. No.	Description	1	10	50
115107CH	HEMO1	Straight	\$3.49	\$3.14	\$2.83
115115CH	HEMO2	Curved	3.95	3.56	3.20

#### 3-Piece Open-End Ratcheting Wrench Set

The Alden Wrench need **SALE** only 30° of pivot angle, rather than 60° required by other open-end wrenches. With the built-in ratchet, you need not even remove the wrench from the head of the bolt or nut. Coupled with its small head sizes and ratcheting action, you can loosen or tighten a bolt faster and in tighter spaces. It is made of stainless steel and is individually hand polished.

SAE 3/8-7/8, 1/2-9/16, 5/8-11/16

Part No.	Description	Price
223896CH	SAE open-end wrench set ②	\$29.95 \$27.45
Blue Part N	lo. = Limited Quantity Available	

#### 4-Piece Adjustable Wrench Set

Heavy-duty carbon steel wrenches with black industrial finish. Constructed with rugged I-beam handle and four-sided jaw design for better fit and strength.



 Length x jaw opening: 12" x 1<sup>3</sup>/<sub>16</sub>"; 10" x 1<sup>3</sup>/<sub>16</sub>"; 8" x 1"; 6" x 1<sup>1</sup>/<sub>16</sub>

Part No.	Description	1	5
261711CH	Adjustable wrench set \$9.	65	\$9.15

#### Adjustable Wrench

Made of chrome-plated carbon steel with knurled adjustment screw and angled head. Size: 6"L x 13/16".

Part No.	Description	1	5
261649CH	Adjustable wrench	\$4.15	\$3.69

#### Combo Wrench Set

· Dropped forged steel Combination

open closed wrench ends



4.5mm, 5mm, 5.5mm, 6mm, 7mm, 8mm, 9mm, 10mm, and 11mm

319564CH: 11 sizes: 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8"

Part No.	Description 1	5
261489CH	10-piece combo wrench set \$8.49	\$7.99
319564CH	11-piece combo wrench set 7.99	7.59

#### Combination Wrenches

Made from hardened, tempered, drop forged chrome vanadium steel. These wrenches have a straight open end and a 120° offset bi-hexagonal ring.



Part No.	Description 1	5
261702CH	9/16" wrench \$6.39	\$6.09
261690CH	1/2" wrench 6.19	5.89
261681CH	7/16" wrench 5.69	5.39

#### 2-Piece Tweezer Set

- PVC insulated handles
- · Serrated tips for parts handling
- Bent tip and straight rounded tip (wide tip)
- Length: 5.8"

Part No.	Description	1	10	25
253180CH	Tweezer set	\$2.99	\$2.69	\$2.45

#### 4-Piece Steel Tweezer Set





**Quantity SAVE** 

100360CH

- · 4 styles of stainless steel tweezers, one self-locking
- Ideal for picking up small components in hard-to-reach places

Part No.	Description	1	10	50
10735CH	4-piece tweezer set	\$7.95	\$6.95	\$5.95

#### 12-Piece File Tool Kit

· Fine and coarse file assortment for metal and wood

3-piece metal flat; 2-piece metal triangle; 1 each wood round:

metal round; wood half-round metal half-round; metal/wood half-round; and 2 detachable handles

Part No.	Description	1	5
233314CH	12-piece file kit	\$12.95	\$9.75

#### **Steel File Sets**

· Strong tool steel

100360CH: 8-piece (5.65"L) 1 ea. 0.15"Dia., 0.13"Dia.,

0.12"Dia., 0.11"Dia. and four 0.22"Dia

202833CH: 6-piece (5.5"L)

 1 ea. 0.12"Dia. (round), 0.11"W (triangle), 0.10"W (square), 0.20"W (half-round) and two 0.2"W (flat)

	Mfr Cross			
Part No.	Ref. No.	Description	1	10
100360CH	FS108F	8-piece file set	\$9.95	\$8.95
202833CH	08110 😂	6-piece file set	75	.65

Blue Part No. = Limited Quantity Available

#### **Automatic Center-Punch Tool**

#### Adjustable

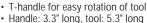
- · Precision instrument
- · Alloy steel point
- Knurled steel body
   Size: 5.0"L x 0.5"Dia.

Part No.	Description	1	10	50
160282CH	Center punch tool	\$5.95	\$5.39	\$4.85

#### T-Handle Reamer Tool

#### Excellent for aluminum chassis work

 For enlarging starter holes on panel mount components from 1/8" to 1/2" diameter



Part No.	Description	1	10	25
151749CH	T-handle reamer tool	\$7.95	\$7.49	\$6.95

#### **Tweezers**



253163CH: Straight, round tapered, wide-point tip 252929CH: Straight round tapered, fine-point tip, stainless steel

253121CH: Wide-tip, insulated

252945CH: Self-closing reverse-action tweezers; wide point tip; stainless steel

252937CH: Self-closing reverse-action tweezers;

medium point tip; stainless steel 253091CH: Curved fine-point tip 252911CH: Straight fine-point tip

253112CH: Fine-point tip, insulated, anti-static

Part No.	Length	Photo	1	10	25
253163CH	4.5"	1	\$.99	\$.89	\$.79
252929CH	4.75"	2	2.25	1.99	1.79
253121CH	4.6"	3	1.49	1.35	1.25
252945CH	6.6"	4	2.59	2.35	2.09
252937CH	4.3"	5	2.25	1.99	1.79
253091CH	4.6"	6	2.25	1.99	1.79
252911CH	4.75"	7	2.25	1.99	1.79
253112CH	4.75"	8	2.25	1.99	1.79

#### Strip-Wrap-Unwrap Tool

- Tool tip made of tempered steel
- Spring steel cutter • Use with 30 AWG wire on .025" square posts
- No solder necessary, see pg 88 for wire
- · Wrap 1 to 2 turns of insulated portion of wire for secure connections • 4.5" long

Part No.	Mfr. Cross Ref. No.	1	10	25
34585CH	HSM30 (Modified)	\$49.99	\$44.99	\$39.99
236785CH	HSR30 (Regular)	29.95	26.95	23.95

## 30 AWG Wire Wrap/Strip Tools

Recommended for use on 0.025" (0.63mm) square posts on

0.100" (2.54mm) center grids. The first 1-1/2 loop on the modified tool has wire insulation while all loops on a regular tool

have bare wires.





242798CH

· Knurled handle for easy grip

9	Quantity SA	VE :		
Part No.	Description	1	10	25
242801CH	Tool (Regular)\$	17.95	\$15.26	\$11.44
242798CH	Tool (Modified)	19.95	17.95	16.15
242827CH	Replace tip for 242801CH	8.49	7.65	5.80
242819CH	Replace tip for 242798CH	9.49	8.07	6.05
242835CH	Replace stripper assembly	5.49	4.67	3.50

#### IC Pin Straightener

Straighten bent pins safely and easily with Jameco's IC pin straightener.

- · Straightens 8/14/16/ 18/20/24/28/40/42-pin ICs
- Materials: black plastic
- Size: 3.3"L x 1.5"W x 0.4"H Includes: Ground terminal

Part No. Description 10 99362CH IC straightener ..... \$6.26 \$5.63





#### **Trimmer Potentiometer Adjustment Pocket Tool**





153314CH	Trimmer tool	\$1.35	\$1.22	\$
⊕° c	rimp Pin	Extraction	Tool	S

#### · Easily extract 0.093" locking pins from connectors

Heavy duty metal

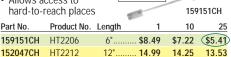
• Precision design • Length: 5"

 See crimp pins on pg 105 (42729CH and 42649CH) Drad No Description

Part No.	PIOU. NO.	Description		10
131887CH	HT319C	Male tool for 42729CH	\$10.95	\$9.86
131879CH	HT319B	Fem. tool for 42649CH	10.95	9.86

#### **BNC Connector Removal Tools**

 For deep chassis removal Allows access to hard-to-reach places



#### D-Sub Pin Insertion/Extraction Tool

· Insertion/extraction tool: red/white plastic body; exchangeable tips



#### Spring-Hook Tools

Grab or place in position springs and wires in those hard-toreach areas with spring hook tools.



#### **Extraction Tools for Molex Connectors**



142156CH/227467CH: For .062" power connectors 142236CH/227395CH: For .093" power connectors 236128CH/234940CH: For .100" KK® series housing

Part No.	Product No.	AWG	1	10
142156CH	W-HT-2285	18-30	\$14.49	\$13.49
227467CH	W-HT-2023	18-30	11.99	10.99
142236CH	W-HT-2038	14-30	14.49	13.49
227395CH	W-HT-2054	14-30	11.99	10.99
236128CH	W-HT-1884	22-30	9.99	8.99
234940CH	11-03-0022	22-30	14.99	12.99

See pages 102 - 103 for Molex Connectors.

#### Steel Fish Tape

Designed specifically to make the retrieval of wires quick and easy.

- · Impact resistant yellow ABS case won't rust or dent
- ensure easy control

tension while retracting



50' 😂 Blue Part No. = Limited Quantity Available

#### 33' Measuring Tape

..... \$24.95 \$18.15

\$16.46 \$14.96

Retractable measuring tape's case has a rubber finish for easy grip and yellow contrast for easy visibility.

1" wide

217470CH

- · Metric and inches with 1mm and 1/16" scales
- · Triple riveted magnetic end hook
- Bottom & side buttons for temporary tape lock
- Front thumb lock for permanent locking of tape measure • Belt clip and strap

Part No.	Description	1	5
261833CH	Measuring tape	\$9.35	\$8.49

## Hand Tools for Mini-Fit Jr.

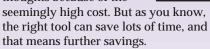


304928CH: Accepts wire range from 14-24 AWG

Part No.	Product No.	Description	1	5
304928CH	63811-1000	Crimp tool	\$42.99	\$39.99
304936CH	11-03-0044	Extraction tool .	19.99	18.99

## **Fishing for Savings**

If you've ever considered purchasing a steel fish tape, you've probably had second thoughts because of the



Fish tapes are no exception to the rule. They save significant amounts of time. They can also prevent the installer from cutting holes in walls which are costly to repair.

If you install manufacturing equipment or develop large systems, consider having a fish tape in your tool arsenal. They'll save you time, and you'll find we have the lowest prices around!

> Practical Practices Money Saving Tips for the Engineer

#### Digital Display Calipers

#### Metric or Inches

- Hardened stainless steel
- · Display: inches to
- 0.001; mm to 0.01 Instructions for making internal, external,
- depth & step measurements
- Calipers measure to 6 inches/150mm
- One-year warranty

Includes: Fitted case and 1.5V silver oxide battery (replacement battery, P/N 140783CH, pg 183)

Part No.	Description	1	10	25
127482CH	Digital disp. calipers	\$64.95	\$58.46	\$52.61

#### Metal Dial Calipers

116134CH

#### Metric or Inches

- For accurate measurements every time
- · Measures outside, inside and depth
- · Easy-to-read dial gauge Length: 6" (150mm)
- · Materials: metal · Color: silver

Includes: Fitted plastic storage case

Part No. Description (min. reading) 10 116134CH Metric (.02 mm) ...... \$29.95 \$26.96 \$24.26 116126CH Inches (.001 inch) ..... 29.95

#### Magnetizer/Demagnetizer

Magnetize tips of screwdrivers for easy pick-up of small metal objects; demagnetize tips to prevent electrostatic discharge that will damage electronic components.

• Size: 2.0"L x 2.0"W x 1.2"D

Part No. Description Magnetizer/demagnetizer-\$6.99\$6.29 239530CH \$5.66

#### Glue Gun and Sticks

 Adheres to PCBs, cardboard. wires, metal and cloth Silicon nozzle

· Electronic heating

Trigger action Utilizes 100mm long

gluesticks (2 sticks included) • Size: 7.3"L x 6.3"W

Part No.	Description 1	10	25
72696CH	Glue gun \$9.95	\$8.96	\$8.06
78633CH	Glue sticks (6/pk) 3.15	2.84	2.55
176292CH	Glue sticks (10/pk) 4.95	4.29	3.79

#### **Deluxe Precision Knife Set**

· Three different knife handles - fine work, medium and heavy duty power grip

 Size: 6.3"L x 2.8"W x 1.4"H Includes: 13 types of blades



Part No. Description 72768CH 13 blade knife set ... **\$10.95** \$9.86 \$8.87

#### 6" Drywall Saw

- · Hardened tempered steel blade
- · Sharp tip for plunge cuts
- Hard plastic handle

Part No.	Description	Lower \$\$\$	1	5
224004CH	6" drywall saw <b>②</b>	\$1.95	\$1.59	\$1.41

Blue Part No. = Limited Quantity Available

#### Color Code Legend Sale Lower\$ QtySave

230341CH

#### SurePunch™ Series **Punchdown Tools**

Terminates and cuts telephone wire and data



cable into 66 and 110 termination panels.

- Cushion grip, molded to the shape of your hand. for comfort and a sure, non-slip hold
- For 22-28 AWG solid or stranded wire
- · Blades twist and lock into place
- Length (with blade): 8.0"
   One-year warranty

230391CH: 110/66 combo w/ reversible cut-only blade 230383CH: 110 reversible cut & punch/punch-only blade 230375CH: Both 110 & 66 reversible cut & punch/ punch-only blades

Part No.	Product No.	1	5
230391CH	3571\$51.25	\$46.99	\$42.77
230383CH	3572 \$51.25	46.99	42.77
230375CH	3579 ❖	53.69	48.78

#### Blue Part No. = Limited Quantity Available

#### SurePunch™ PRO Punchdown Tool

With 110/66 Combo Blade & Clip-On Light

The FIRST and ONLY punchdown tool to have a detachable light. Built into the handle is a hook to feed wires



through holes and a pick to separate wires.

- · Adjustable HI/LO spring compression
- Detachable light with long-life 2200mcd LED
- Finger grips and non-slip rubber-embedded cushion handle for comfort
   Length (tool only): 7.0"
- · Blades twist and lock into place
- 10-year warranty on blade; one-year on tools

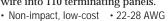
Part No.	Product No.	1	5
230359CH	3588 ❖\$65.	49 \$59.49	\$54.09

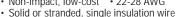
#### Blue Part No. = Limited Quantity Available

#### Non-Impact 110 Punchdown Tool

Cut and Punch

Terminates and cuts telephone and data wire into 110 terminating panels.





• Comfortable rubber grip handle • Length: 4.0"

Part No.	Product No.	1	5
230367CH	3580 😂	<del>\$10.29</del> \$9.45	\$8.55

**☼** Blue Part No. = Limited Quantity Available

#### Impact Punch-Down Tool

124142CH

Conforms to AT&T performance specification. Reversible clip-in blade, adjustable spring-loaded impact mechanism and spare

124151CH storage blade in the handle.

· One-year warranty

124142CH: For 66-type bifurcated terminals Size: 7.0"L x 1.4"W x 1.1"H

124151CH: Blade for 110-type terminals

Part No.	Description 1	10	
124142CH	# 3527 Tool with 66 blade \$53.19	\$50.53	
124151CH	110 blade <del>\$1</del> 9.95 <b>17.99</b>	17.14	
See pages 227 – 228 for our complete			

selection of Cutters/Strippers.

#### "GripP-STRIPPER" Wire Cutter/Stripper

This tool strips & cuts the most common wire and cable types: electrical wire, hook-up wire, multiconductor cable, and flat cables.

- For 10-22 AWG
- The tool head and handles are at optimum 22° angle
- Non-scoring strip and smooth wire cutting
- · Features screw cutter and wire loops embedded in frames • Gripping jaws on front of tool
- Size: 7.1"L x 2.3"W x .65"D
   One-year warranty

Part No.	Product No. 1	5
230463CH	1117 <b>3</b> <del>\$13.</del> 95 <b>\$12.65</b>	\$11.50

Blue Part No. = Limited Quantity Available

#### Data SureStrip™ Universal Cabl0e Cutter/Stripper

This multi-purpose tool is an easy-touse universal cable cutter and stripper for data, telephone, and network installations.

- Cuts and strips multiple cable types: 4/6/8conductor flat satin cables; 4/6/8-conductor UTP/STP data cables, 25-pair UTP/STP data and telephone cables; multi-conductor round bundled cables of up to 0.5" diameter; 8-14 AWG wire
- Fully adjustable with simple thumb screw
- Length: 4.5"
   One-year warranty

Part No.	Product No.	1	5
230447CH	1116 \$18.89	\$17.15	\$15.57

#### Cable Slitter/Stripper

AM25 Slitter with 2109 blade

Strips and slits round cables with PVC,



175089CH

**Quantity SAVE** 

- Adjustable cutting depth to 0.18"
   Length: 5.3" Swivel blade for circular, longitudinal & spiral cuts
- · Cable holding clip with integrated edge for removing slit insulation • Spare blade in handle
- Lifetime tool warranty; one-year on blade

Part No.	Prod. No.	Description	1	5
230404CH	1820	Cable slitter/stripper	\$37.95	\$36.05
236769CH	2109	Blade for 1820	14.59	12.29

## Impact Punch-Down Tools

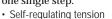
- · Reversible clip-in blade
- Adjustable (Hİ-LO) spring-loaded 175071CH impact mechanism
- Storage bin on handle for spare blade
- 175071CH: Tool with blade
- For 66-type terminalsSize: 5.2"L x 1.5"W x 1.0"H
- 324013CH: Tool with blade
- For 110-type terminals Size: 5.8"L x 1.7"W x 1.2"H

175089CH: Punch-down blade Blade for 110-type terminals

Diado io	i i i o typo torrimiais		
Part No.	Description	1	10
175071CH	Tool with 66 blade	34.95	\$31.46
324013CH	Tool with 110 blade	37.39	33.65
324021CH	Punch-down blade 66	14.95	13.49
175089CH	Punch-down blade 110	14.95	11.50

#### RG59/6/RG6 Quad CATV "F" Coaxial Cable Stripper

Easily removes the outer jacket, shield braid, and inner dielectric in one single step.



- · Adjust cutting depth on each blade for varying cable thickness with the included hex key
- Pre-set for common strip lengths
- For RG59/6/RG6 Quad CATV "F"
- Length: 4.3" · One-year warranty

art No. F	Product No.	1	5
<b>30439CH</b> 1	1257 <b>②</b> <del>\$16</del> .0 <sup>9</sup> \$	14.59	\$13.26

**☼** Blue Part No. = Limited Quantity Available

#### CrimpALL® Crimpers for RG58/59/62AU & RJ45

- · Fully-ratcheting crimp cycle with built-in safety release
- Soft-rubber embedded handles
- Rugged, double-plated jaw, designed to increase life span Higher crimp force produced
- with less hand force
- No break-over hand force less effort by the user to make the last click before making a complete crimp, the CrimpALL does all the work
- EZI-Change™ die screws makes changing dies quick and easy
   Length: 9.9"
   Weight: 1.3 lbs.

230341CH: For RG58/59/62AU with 2034 die 230332CH: For RJ45 (8P8C) with 2061 die

Part No.	Product No.	1	5
230341CH	8001 <del>\$58.95</del> \$5	4.45	\$49.47
230332CH	8030 <del>\$58.95</del> 5	4.75	49.76

#### **Crimpers for Twisted** Pair Cable and BNC/TNC

- · Fully-ratcheting cycle with built-in safety release
- EZI-Change<sup>™</sup> die screws
- For RJ45 (8P8C) crimps 22-28 AWG flat/round.
- solid/stranded wires For 2 or 3 piece BNC/TNC connectors
- crimps RG58/RG59/RG62AU cables · Length: 8.9"

230421CH: Twisted pair crimper with 2061 die

- · Crimps 22-28 AWG flat/round, solid/stranded wires
- For RJ45 (8P8C) 230412CH: BNC/TNC crimper with 2034 die

- · Crimps RG58/59/62AU cables
- · For 2 or 3 pcs. BNC/TNC

Part No.	Product No.	1	į
230421CH	1307\$4	19.29 \$44.65	\$40.59
	1317		40.59

## 30-Day Money-Back Guarantee

If you're not completely satisfied with your purchase, simply return the product within 30 days for a refund or exchange.

Details on page 258.



SALE



#### **Protective Coiled Grounding Wrist Strap**

· Comfortable, adjustable Velcro wrist strap

· The coiled cord has banana plug and alligator clips

• Extended cord: 9' long • Color: black Includes:  $1M\Omega$  resistor for added safety

Part No. Description 34551CH Anti-static strap ...... \$6.49 \$5.85 \$5.29

#### **Conductive Anti-Static** Foam and Bags

13864CH

78668CH

Don't get zapped!

Protect your investment with these inexpensive bags and ensure a safe work area with our conductive anti-static foam.

 For safe storage of static sensitive devices

13864CH: 24.0"L x 12.0"W x 0.25"H

\* Prepackaged: order in increments of 5

Part No.	Descri.ption 1	5
13864CH	Anti-static foam \$9.29	\$8.35
78668CH	4" x 6" anti-static bags *	.19
78650CH	8" x 10" anti-static bags	.59

#### **3M Disposable Anti-static** Wrist Strap

Disposable wrist strap for one time use and low durability applications. A hypoallergenic

adhesive provides 360° contact with the skin to minimize skin-to-band resistance. The conductive adhesive on the copper foil adheres to any convenient electrical ground. A current limiting resistor is fabricated into the plastic ribbon below the wristband. One size fits all.

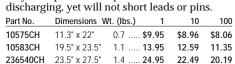
· Ship along with components and devices such as integrated circuits and computer peripheral cards

Part No.	Product No.	1	10	25
285456CH	3M 2209 \$1	.25	\$1.17	\$1.11

#### **Anti-Static Work Mats**

236540CH

Make your work environment safe from static discharge! These mats are made of attractive semi-conductive vinyl that provide adequate



#### Anti-Static Heel Strap

· Discharges static without restricting your mobility

Ideal for anyone handling static sensitive devices

Ground strap: 15.5"I.

0.04.14 01.4pt 10.0 E					
Part No.	Description	1	10	10	
100327CH	Heel strap	\$5.49	\$4.99	\$4.5	

#### Anti-Static Plastic DIP IC Storage **Tubes and Rubber Rail Stops**

29516CH: Thin tube (rail) fits 8, 14, 16, 18, 20 and 22-pin integrated circuits. • Length: 23.75" 29524CH: Wide tube (rail) fits 24, 28, 32, 40 and 48-pin integrated circuits. • Length: 20" 29583CH: Rubber stops used to plug plastic rail ends





305226CH

305218CH

19166CH

\* Prepackaged: order in increments of 10 or 100

Part No.	Mfr. Cross Ref.	Description	1	10	100
29516CH	RIC20	Thin rail	. \$.49	\$.44	\$.40
29524CH	RIC220	Wide rail	49	.31	.19
29583CH	RRS	Rubber stop	*	.07	.053

#### 300-Watt Solder Pot

#### Temperature Regulated Between 420°C and 450°C

- · HI/LO temperature switch
- 2 conductor power cord: 5' 9" long
- Holds up to 1 bar of P/N 176057CH or 170464CH, below

Temperature Adjustable · 2-wire power cord (5'5") • Temperature: 0°C to 500°C · Self regulating temperature Input voltage: 110VAC @ 5.5A

On-off power switch and LED

Size (unit): 6.8"L x 5.5"W x 2.8"H

indicator for heat

Part No.

Part No.

172275CH

• Size (tub): 3.9"L x 1.6"D

· Thermostat control for setting

Input voltage: 110VAC @ 18A,

• 3 conductor pigtail power cord: 5' long

Size (unit): 18.1"L X 11.5"W X 6.0"H

Weight: 23.1 lbs.
 One-year warranty

Size (tub): 12.0"L X 8.0"W X 2.9"H

Description

 Holds up to 48 bars of P/N 176057CH

or 170464CH, right

50-60Hz single phase

temperature from 50°C to 300°C

- Input voltage: 110VAC @ 2.7A; 50-60Hz
- Size: (unit) 4.8"H x 5.5" Dia. (base) Weight: 5.9 lbs.
- Size: (tub) 2.4"Dia. x 1.6"D One-year warranty

Part No.	Description	1	10	25
160303CH	300W solder pot	\$64.95	\$58.49	\$52.65

600-Watt Solder Pot

Holds up to 3 bars of P/N 176057CH or 170464CH, below

2000-Watt Solder Pot

Includes: Skimmer and removable dross tray

600W solder pot .....

· Weight: 7.4 lbs.

\$189.95 \$146.25

5

170464CH

## Soldering Products

#### **Fume Extractor and Filters** Absorbs noxious lead fumes using activated-

carbon filter and a high-efficiency fan

- Operate continuously providing filtered air Static ground jack
- Air flow: 115 CFM Fuse protected
- · 120VAC, 60Hz, 22 watt
- · Noise: 49dB fan · Aerodynamic hood design for effective removal of solder fumes · Black anodized aluminum case
- Removable carbon-impregnated filter
- Compact size allows use on work bench w/ minimum space • Size: 6.4"W x 4.6"D x 7.9"H
- One-year warranty Weight: 4.6 lbs.

Includes: Detachable power cord

Part No.	Description	1	10	25
120150CH	Fume extractor	\$58.95	\$52.95	\$47.79
127183CH	Replace. filters (2/pk)	12.95	11.66	10.49

#### Combination 42-Watt Soldering Station and Fume Extractor

- · Power consumption: 42W @ 650°F (soldering iron)
- Adjustable knob for temp. control: 500° to 800°F • Stability @ idle: ±9°F
- Max. air volume: 95/115CFM
- · LED indicator for pilot light

63/37

- Electronic zero-voltage switching
- Input voltage: 100-120VAC @ 60Hz

 Size: 6.4"W x 7.8"H x 4.7"D · Weight: 5.2 lbs.

Includes: Soldering iron, iron holder, sponge, carbon activated filter, power cord and manual

Part No.	Product No. 1	10
183169CH	456DLX\$89.95	\$86.29

#### **Solder Bars**

· Tin/lead:	soldering p 60/40 & 63 L x 0.9"Dia.	3/37		1704	64CH
Part No.	Description	Wt. (lbs.)	1	10	2
176057CH	60/40	1 1	¢Q /0	¢7 65	\$4.5

#### 19254CH Replacement

**Electric & Manual Desolder Pumps** 

- for cleaning tips available 19254CH:
- · UL listed One-hand operation

· Easily disassembled

· Size: 10.5"L x1.0"Dia.

19166CH: Size: 7.8"L x 0.8"Dia

305218CH/305226CH: Size: 13"L x 1.0"Dia.

Part No.	Description 1	10
19254CH	Electric desolder pump \$26.95	\$23.95
19166CH	Manual desolder pump 4.95	4.49
305218CH	Manual desolder pump 18.95	17.99
305226CH	Man. desolder pump (ESD safe) 14.75	13.99
19262CH	1 tip for 19254CH 4.95	4.49
22091CH	2 tips for 19166CH 4.49	3.95
307774CH	1 tip for 305218CH 4.55	4.35
307782CH	1 tip for 305226CH 2.39	2.27

## Solder Spool & Iron Stand

Solder not

· 4 pc. spool stand (some assembly required)

Shaft diameter: 0.6'

Size: 6"L x 3.5"W x 3.1"H Sponge size: 1.6"W x 2.4"L

· Weight: 2.0 lbs.

Part No. Description 100 169551CH Spool & iron stand \$16.95 \$15.29

# Solder Spool Stand

• 12 pc. solder spool stand (some assembly required)

Size: 3.6"W x 3.9"D x 4.3"H

· Shaft dia.: 0.6" Solder not · Weight: 1.6 lbs. included



Part No. Description 100 141760CH Solder spool stand ... \$8.95 \$6.95



1.8 ...... 10.49

9.96

9.47

#### 60-Watt Analog Display **Soldering Station**

Maintains a steady temperature using a cartridge heating element, providing a longer life for



 CMOS devices protected against voltage spikes Size: 4.3"W x 6.0"D x 3.4"H Weight: 4.1 lbs. Includes: One 1/16" tip (P/N 35115CH, pg 235)

236460CH: Replacement sponge 168583CH: Tip .078" for 168401CH 168591CH: Tip .590" for 168401CH

Part No.	Product No.	1	10	25
236110CH	168-3C	\$89.95	\$79.95	\$72.95
236460CH	78-744615	2.99	2.69	2.49
168583CH	46-060102	. 11.95	10.79	9.69
168591CH	46-060115	. 12.95	11.69	10.49

#### 42-Watt Controlled-Output Soldering Station



· Transformer powered soldering station complete with macro style, low voltage, temperature controlled soldering iron

· Closed loop method of controlling maximum tip temperature for protection of temperature sensitive components • 120VAC @ 60Hz input

· Power unit housing features impact resistant plastic for durability

· Quick disconnect plug for soldering iron and lighted on/off switch

 Separate conductor grounds iron tip and terminates third pin of power cord Uses PT series tips Size: 5.9"L x 4.5"W x 3.6"H · Weight: 4.0 lbs.

Includes: Soldering iron and PTA7 tip (below)

Part No.	Prod. No.	Description 1	10
170552CH	WTCPT	Solder station \$129.95	\$124.95
192161CH	TC201T	Replac. iron 68.95	62.05
192170CH	PTA6	.062" screwdriver tip	
		(600°F) 6.95	6.25
192188CH	PTA7	.062" screwdriver tip	
		(700°F) 5.69	5.15
192196CH	PTA8	.062" screwdriver tip	
		(800°F) 5.69	5.15

#### Vacuum Pen Tools



ESD safe body

· Picks up components with weight of 1.1 lbs. or less

207239CH: 4 tips and cups 207247CH: Aluminum body; 6 tips and cups

Part No.	Description	1	10	25
207239CH	Handivac tool \$19.	99	\$17.99	\$16.19
207247CH	Pen vac tool 37.	95	34.25	30.49

#### Weller 40-Watt Soldering Station

· Lighted on/off switch

· Adjustable power from 5 watts to 40 watts 120V @ 60Hz

Temperature is electronically controlled

from 350°F to 850°F Size: 5.5"L x 4.5"W x 3.5"H

 Weight: 1.9 lbs. Includes: ST3 1/8" screwdriver tip, soldering station and manual

Part No.	Prod. No.	Description	1	10
146595CH	WLC100	Soldering station	\$48.95	\$44.09

#### Weller **Soldering Tips**

Replacement Tips for WLC100, WP25 & WP23

				-
1466080	Н	146616CH	146624	CH
Part No.	Prod. No.	Description	1	10
146608CH	ST1	Screwdriver tip 1/16"	\$5.95	\$5.35
146616CH	ST3	Screwdriver tip 1/8"	5.95	5.35
192145CH	ST6	Screwdriver tip .031"	5.25	4.75
146624CH	ST7	Conical tip 1/32"	5.95	4.95

#### 50-Watt Analog & Digital **Display Soldering Stations**

217461CH

233533CH

Innovative heater and sensor combination for quick heat-up and rapid temperature recovery

· Tip temperature offset capability allows user to reset temperature readings to match

tip size and style Wireless temperature lockout

 Auto power-down after 90 minutes of inactivity

 Temperature range: 350°F to 850°F

Temp. accuracy: ±9.0°F

ESD safe

• Size: 5.9"L x 4.5"W x 3.6"H • Weight: 4.0 lbs. Includes: PES51 50W soldering iron with ETA tip, PH50 stand and sponge, and adjustment tool

Product No. Description 217461CH WFS51 Analog ...... \$115.95 \$105.95 233533CH WESD51 Digital ..... 158.95 150.99

#### Weller Soldering Tips

Replacement Tips for WES51

· Tip leakage: less than 2mV

16803CH

Tip to ground resistance: less than  $2\Omega$ 

Tips also used with WCC100 station

 Additional tips can be special ordered 16782CH

Part No.	Prod. No.	Description	1	10
16774CH	ETA	Screwdriver 1/16"	6.95	\$6.25
16782CH	ETJ	Long screwdriver 1/32"	6.95	6.25
16803CH	ETR	Narrow screwdriver 1/16"	6.95	6.25
16811CH	ETS	Long conical 1/64"	6.95	6.25

16811CH

#### 65-Watt Soldering Station with **Micro Soldering Pencil**



The micro soldering pencil has the shortest tip-to-grip distance on the market today, giving you excellent control by putting you closer to the work. The heating element is contained in the pencil rather than the tip so you do not throw away a good heater every time you wear out a tip.

· Fast heat-up and thermal recovery

 Tips are secured to the pencil by use of a threaded end, eliminating the use of a barrel nut

 Temperature is reduced to 300°F (150°C) when pencil is not used for 20 minutes. Unit is switched off after 60 minutes of inactivity

ESD safe to protect sensitive components

· Voltage: 120V input; 24V output

• Temperature range: 150°F-850°F (66°C-454°C)

Temperature accuracy: ±9°F (±5°C)

Temperature stability: ±10°F (±6°C)

Includes: WSLPU power unit, WMP soldering pencil with NT1 tip, and WMPH iron stand

Part No.	Product No.	1	5
227408CH	WSL	\$255.95	\$237.95

#### Weller Soldering Tips

Replacement Tips for WSL

	$\nearrow$		>	
233576	CH 23	3550CH/233568CH	233541	1CH
Part No.	Prod. No.	Description	1	5
233576CH	NT1X	0.8mm bent round .	. \$8.89	\$8.45
233550CH	NTA	0.6mm chisel	7.59	7.25
233568CH	NTB	2.4mm chisel	7.59	7.25
233541CH	NT1	0.25mm micro	9.99	8.29

Weller

#### SMD Rework Station

the demanding needs of today's electronic industry, technician service/repair centers, and assembly work. With this system, replacement of surface mount devices or dual-in-line components is a snap. It not only increases

Engineered to meet

productivity in SMD assembly repair, but achieves a new standard of quality, superior performance, and ease of operation.

· High-performance, inexpensive, versatile

Adjustable temp.: 250°C - 450°C (482°F - 842°F)
 Thermocouple sensor for stable temperature
 Long-life ceramic heating element

Rapid heat-up and recovery

· 40W station, 25W ceramic element

• Size: 7.4"L x 5.0"W x 3.3"H • Weight: 2.6 lbs.

Includes: Base power unit, sponge, stand, surface mount tweezer iron, and stand for tweezers

Part No.	Description		10	25
224629CH	Rework station	\$89.95	\$80.99	\$72.85
168583CH	.078" tip	11.95	10.79	9.69
168591CH	.590" tip	12.95	11.69	10.49



## 45-Watt Analog Display Soldering Station

#### Grounded Soldering Tip

- 500°F to 850°F Fully grounded
- · Insulated ceramic heating element for rapid heat-up and heat recovery
- Heater insulation exceeds 100MΩ
- · Zero voltage circuitry eliminating high voltage spike and magnetic field generation
- Size: 7.0"L x 4.5"W x 3.5"H
   Weight: 2.5 lbs.

60-Watt Soldering Stations

Designed for soldering situations

Includes: Manual, soldering iron, stand and two sponges

Part No.	Product No.	Description 1	10	25
229673CH	XYT379-C	45-Watt soldering station \$59.95	\$53.95	\$48.95
156814CH	XYB01	Sharp conical chisel 1/32" tip 4.95	4.49	3.95
156822CH	XYB04	Conical chisel 1/16" tip 4.95	4.49	3.95
134631CH	SP715	Replacement sponge 2.99	2.69	2.49

## 60-Watt Desoldering & Solder/Desoldering Stations



- Simple fine tune feature to select within 300-850°F range
- Vacuum pump activated "on demand" using finger tip switch on desolder handle
- CMOS devices protected against voltage spikes

#### 125508CH:

• Size: 9.2"L x 7.2"W x 3.6"H

· Weight: 13.1 lbs. Includes: XYD12 tip and solder holder

125516CH/223853CH: Size: 11"L x 10"W x 4.0"H; Wt.: 18.1 lbs. **Includes:** XYD12 tip, solder holder, tip cleaner and tweezers

223853CH: Dual display of tip temperature with selector switch for °C or °F and read/set temperature

	ecise tempe for sensitiv	erature is ( e components.	الم الم	ESD S	are!	P/N 2361	01CH & 12550 parately \$409.	8CH
		ained at ±6°F		-44		Combine	ed: P/N 207263 \$388.95	СН
	c temperatu rom 392° to			45	236101	ICH	Part No.	Prod
	calibration p		SALE	/_	219	627CH	125508CH	968
	evices proteo oltage spike		168401CH	A.		-	125516CH	988
		on LED indicators		-			223853CH	988
	"W x 8.0"D x			1	C 40		207271CH	TWZ
Includes: (	One 1/16" tip	(P/N 35115CH – b	pelow)			<b>V</b>	207221CH	D1A
Part No.	Product No.	Description	,	1	10	25	168583CH	46-0
236101CH	XY9-60D/ESE	Digital soldering sta	tion – ESD safe \$10	09.95	\$99.95	\$89.95	168591CH	46-0
219627CH	XY9-60A	Analog soldering sta			89.95	79.95	236460CH	78-7
168401CH	TWZ50ESD	SMD tweezer iron w	/ 0.078" tip <del>\$7</del> 9.95 7	74.95	67.46	60.71		
168583CH	46-060102	Tip .078" for P/N 168	3401CH <b>1</b>	11.95	10.79	9.69	Part No.	Proc
168591CH	46-060115	Tip .590" for P/N 168	3401CH <b>1</b>	12.95	11.69	10.49	134640CH	SP8
236460CH	78-744615	Replacement sponge f	or both stations	2.99	2.69	2.49	134631CH	SP7

Part No.	Product No.	Description	1	10	25
125508CH	968	Desoldering station \$2	299.95	\$269.99	\$242.99
125516CH	988	Solder/desoldering station 3	399.95	359.99	323.99
223853CH	988D	Solder/desoldering (dual display) 4	159.95	413.95	372.55
207271CH	TWZ60ESD	SMD tweezer iron with .078" tip	69.95	62.95	56.95
207221CH	D1A60A	Replacement desoldering iron	74.95	63.71	58.20
168583CH	46-060102	Tip .078" for P/N 207271CH	11.95	10.79	9.69
168591CH	46-060115	Tip .590" for P/N 207271CH	12.95	11.69	10.49
236460CH	78-744615	Replacement sponge for all stations	2.99	2.69	2.49
				_	

Replacement Sponges for Legacy Models						
Part No.	Product No.	For Station	1	10	100	
134640CH	SP815	168-3C	. \$2.99	\$2.55	\$1.95	
134631CH	SP715	XY-60D, XY-379 & P/N 229673CH.	2.99	2.69	2.49	

## See page 238 & 241 for Chemicals & other accessories to assist you in your soldering projects.

**Special** 

5% Bundle Savings

Complete ISO 9000 digital station -

#### Tips & Replacement Parts for XYTronic Soldering and Desoldering Products 35115CH/156822CH 35334CH 207351CH 207343CH 156814CH 3/2 **Quantity SAVE** 207301CH Pricing 168.30 DESD Product Part 7050 \* 370 Number Number Description 10 25 207327CH 35326CH XY401 Soldering tip - conical bevel 1/32' \$4.49 \$3.95 \$3.65 35078CH XY402 Soldering tip - semi-chisel 1/32" 4.49 3.95 3.65 207298CH Soldering tip - conical sharp 1/64" 35334CH XY403 4.49 3.95 3.65 35115CH XY404 Soldering tip - conical chisel 1/16" 4.49 3.95 3.65 35238CH XY405 Soldering tip - semi-chisel wide 1/8" 4.49 3.95 3.65 207280CH 207335CH XY406 Soldering tip - long conical chisel 3/64" 2.95 2.69 2.39 1 Soldering tip - chisel 3/16" 1 1 207351CH XY410 2.95 2.69 2.39 207319CH Soldering tip - wedge 3/16" 207343CH XY411 2.95 2.69 2.39 140231CH XY430 Soldering tip - SMD flat pack 7/32" 8.95 7.95 7.25 156814CH XYB01 Soldering tip - sharp conical chisel 1/32" 4.95 4.49 3.95 35297CH 207301CH XYB02 Soldering tip - conical semi-sharp 1/32" 4.95 4.49 3.95 207327CH XYR03 Soldering tip - conical sharp 1/64" 4 95 4 49 3 95 156822CH XYB04 Soldering tip - conical chisel 1/16" 1 4.95 4.49 3.95 35318CH 207298CH XYB05 Soldering tip - semi-wide chisel 1/8" / / 4.95 4.21 3.16 207280CH XYB06 Soldering tip - long conical chisel 3/64" 4.95 4.49 3.95 127634CH 207319CH XYB30 Soldering tip - wedge blade 3/16" 8.95 7.65 5.75 35297CH XY37 Heating element- (nichrome) 20.95 18.95 16.95 127642CH 35318CH XY48 Assembly - 60W w/ nichrome heater 30.95 27.95 24.95 127634CH XYD10 Desoldering tip - 1.0mm (.0394") 8.95 7.95 7.25 127651CH 5.71 127642CH XYD12 Desoldering tip - 1.2mm (.0472") 8.95 7.61 Desoldering tip - 1.5mm (.0586") 8 95 7 95 127651CH XYD15 7.25

116572CH

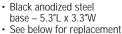
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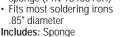
#### 16 to 30-Watt Variable Soldering Iron, Stand & Sponge

#### 116572CH:

· Length: 7.5" 36329CH:



sponge (P/N 134631CH) Fits most soldering irons .85" diameter







#### Thermally Balanced 25-Watt Soldering Iron

The XY200GX is a thermally balanced soldering iron for the professional or hobbyist.



- 25-watt power consumption
- · Interchangeable tips (pg 235)
- UL listed Length: 8.0"
- One-year warranty

Includes: 1.6mm conical tip

129040CH	25W solder. iron	\$11.49	\$10.35	\$9.35
Part No.	Description	1	10	25

#### High-Quality 25-Watt & Weller 35-Watt Soldering Irons

170587CH

192153CH

192081CH

· Interchangeable heater elements





· Length: 9'

120VAC @ 60Hz

Includes: Power cord & ST3 tip (pg 234).

Part No.	Product No.	Description	1	10
170587CH	WP25	25W solder iron	\$32.95	\$31.35
192102CH	WP35	35W solder iron	39.95	35.95
192153CH	PH25	Solder iron stand	16.19	15.35

#### Weller 100-Watt Soldering Iron

"Closed loop" method of controlling maximum tip temperature

 Nominal heat-up time with 700°F tip is 110 seconds



· Weight: 0.7 lbs. Length: 6"

Includes: CT6F7 (0.375" screwdriver tip; 700°F) Prod. No. Description 192081CH



Check our website for more products www.Jameco.com

#### Special! Low-Cost Irons

102461CH

208995CH

**Quantity SAVE** 

168410CH

168583CH

#### 30-Watt Soldering Iron and Stand

 UL approved Ideal for precision work







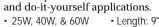
- UL approved
- · Ideal for maintenance and hobby use
- 0.157" removable tip
- · Length: 8.1"

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Part No.	Description 1	10	100
208987CH	35W soldering iron \$2.99	\$2.69	\$2.45
208995CH	Replacement tips (2)99	.89	.67
209074CH	Solder roll, 8mm (.031") <b>5.49</b>	4.89	3.95

#### Economical, High-**Performance Soldering Irons**

High-quality soldering irons that are suitable for both professional



· 120VAC; 6' cord with 3-prong plug Tips for 224611CH/224602CH: 226000CH chisel; 226018CH conical

Tips for 195223CH: 226026CH chisel; 226034CH conical

Part No.	Product No.	1	10	2
224611CH	200PHG-25W	\$7.95	\$6.76	\$5.0
224602CH	200PHG-40W	8.95	8.06	7.2
195223CH	200PHG-60W	13.95	12.49	12.1
226000CH	44-240517 tip	95	.85	.7
226018CH	44-240513 tip	95	.81	.6
226026CH	44-240617 tip	1.95	1.66	1.2
226034CH	44-240603 tip	1.95	1.66	1.2



#### SMD Tweezer Iron

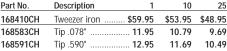
 Maximum efficiency ceramic heating elements insures rapid heat-up and instant heat recovery

Max. temp.: 760°F

 Heater insulation exceeds  $100M\Omega$  • 120VAC

Heater power consumption: 35W each





#### Committed to You

We're committed to providing you with the best service in the industry.

#### **Butane-Powered Cordless** Soldering Iron and Tips



This butane-powered soldering iron is designed for many popular cordless applications. Most common are automotive repair, aviation, electrical components, field repair, shrink tubing, television repair and more.

255361CH

255370CH

· Cordless, simple operation in the shop or field

255337CH

- · No electrical interference
- Automatic ignition

255329CH

- Up to 200 minutes of operation in a full load
- Soldering temperature range: 240°F to 1000°F
- Torch temperature: 2400°F

Part No.	Prod. No.	Description 1	5
255265CH	PRO-120	Soldering iron \$44.95	\$42.69
262107CH	S-30	Tip, deflector 1.19	1.09
255273CH	PS-1	Tip, 1/32" flat 8.99	8.75
255290CH	PS-2	Tip, 3/32" flat 8.99	8.75
255302CH	PS-3	Tip, 1/8" flat 8.99	8.75
255311CH	PS-4	Tip, 3/16" flat 8.99	8.75
255329CH	PS-5	Tip, 1/32" chisel 8.99	8.75
255337CH	PS-6	Tip, 3/32" chisel 8.99	8.75
255361CH	PS-9	Tip, hot knife 8.99	8.75
255370CH	PS-10	Tip, hot blower 8.99	8.75

## Weller Cordless Soldering Iron Kit

- · Self igniting and
- instant heat · Adjustable temperature
- (25W to 125W) · Auto switch off
- Visible gas level
- · Additional tips can be special ordered
- 2 hours of heat on average tank setting

Includes: Soldering tool, hot blower tip, hot knife tip, 2.4mm and 4.8mm double flat tip, cleaning sponge, storage case and instruction manual

Part No.	Prod. No	Description	1	5
152207CH	PSI-100K	Tool kit	\$79.95	\$75.95

## WAHL® Cordless Soldering Iron

The #1 choice for field service soldering! IsoTip® Power Pro Model #7904

- 900°F tip temperature
- · LED indicator light
- Solders 200+ joints or up to 30 minutes of continuous soldering
- Iron performance equivalent to 25-watt iron
- · Weight: 1.1 lbs.

Includes: Soldering iron, recharging stand, NiCd battery pack, and tips







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25W diaphragm pump

72864CH

#### Focus Hood Tips Dimensions: mm (in.) (0.83) (0.51) 262959CH 262924CH 262810CH 26 (1.02) 10.2 262895CH 262836CH 262967CH 19.2 (0.76) 21.2 (0.83) 262916CH 262908CH 262772CH 20.2 (0.7 28.2 20.2 (0.79) 24.2 (0.95) 262852CH 262844CH 262801CH 2(1. 39.9 (1.57) 32.2 (1.27) 40.4 (1.59) 262861CH 262887CH 262879CH

#### Hot Air SMD Rework Station with Digital Display

The Hot-Air SMD 850D is engineered to meet the demanding needs of today's electronic industry; technicians, service/repair and assembly rework. The system not only increases productivity for SMD assembly and repair but also achieves a new standard of quality.

- Incorporates a US made pump the largest in the industry
- · Long life ceramic heater insures accurate and sufficient heat where you need it
- Adjustable air-flow
- · Electronically controlled temperature system with digital readout in preset and actual temperature
- Automatic cooling mode protects the heating element
- Power supply: 100-120VAC or 220-240VAC
- Airflow capacity: 1.5L/min. to 28L/min.
- · 310W nichrome heating element
- Hot air temperature range: 100° 385°C (212° 725°F)
- Size: 7.4"W x 9.6"D x 5.0"H

 Weight: 10.8 lbs. Includes: Precision 5 pc. non-magnetic tweezer set, 4 focus hood tips (single 2.5mm and 4.4mm pipes, P/N 262895CH and 262908CH)

	Part No.	Product No.	Description	1	5
	262705CH	850D	Hot air SMD rework station with 4 focus hood tips	\$395.05	\$375.25
	262983CH	HG850D	Heat gun replacement	78.95	74.95
	262924CH	A1141B	Focus hood tip, PLCC 11.5 x 14	34.95	33.25
	262810CH	A1135B	Focus hood tip, PLCC 17.5 x 17.5	34.95	33.25
	262959CH	A1136B	Focus hood tip, PLCC 20 x 20	49.95	48.29
	262836CH	A1137B	Focus hood tip, PLCC 30 x 30	49.95	48.29
	262967CH	A1138B	Focus hood tip, PLCC 30 x 30		48.29
	262895CH	A1125B	Focus hood tip, QFP 10 x 10	34.95	33.25
	262908CH	A1126B	Focus hood tip, QFP 14 x 14		33.25
	262772CH	A1128B	Focus hood tip, QFP 14 x 20		33.25
	262916CH	A1127B	Focus hood tip, QFP 17.5 x 17.5		33.25
	262852CH	A1261B	Focus hood tip, QFP 20 x 20	49.95	48.29
	262844CH	A1182B	Focus hood tip, BQFP 24 x 24		48.29
	262801CH	A1129B	Focus hood tip, QFP 28 x 28		48.29
	262861CH	A1263B	Focus hood tip, QFP 28 x 40		75.95
	262887CH	A1265B	Focus hood tip, QFP 32 x 32		75.95
1	262879CH	A1264B	Focus hood tip, QFP 40 x 40		75.95
	262932CH	A1258B	Focus hood tip, SOP 7.6 x 12.7		33.25
	262941CH	A1260B	Focus hood tip, SOP 8.6 x 18		33.25
	262975CH	A1259B	Focus hood tip, SOP 13 x 28		48.29

## **Vises**

#### Vacuum Vise

8.7 (0.34)

262941CH

13.5 (0.53) 262975CH

- · Features the patented "split ball" that tilts, turns and rotates through three planes
- Nylon jaws open a full 2.25"

8.2 (0.32)

262932CH

- · Powerful suction pad for quick and easy set-up
- Size: 5.0"L x 4.0"W x 6.3"H
- · Weight: 3.3 lbs.
- One-year warranty

Part No.	Product No.	Description	1	5
262115CH	GV-300	Vacuum vise	\$47.19	\$44.85

#### **Hobby Table Vise**

Made of aluminum die cast construction, this is an ideal tool for the hobbyist.

- · Jaw width: 2.4"
- Maximum opening: 2.0"
- Clamps to any surface up to 1" thick

up to 1	tilloit					
Part No.	Description	Wt. (lbs.)	1	5		
262001CH	Hobby vise	1.0	\$6.75	\$6.35		

#### Clamp Vise

- · Lightweight, sturdy construction
- No tools needed finger turn to tighten
- Ball cup allows vise to adjust to any angle
- Nylon jaws open 2
- Size: 10.0"L x 2.5"W

Part No.	Description	Wt. (lbs.)	1	10
127167CH	Clamp vise	2.1	\$17.95	\$16.99

#### PANAVISE Electronic Work Center

- · Circuit board holder, standard base, tray base mount, solder station, sponges and wire holder included
- Size: 8.5"W x 7.8"H
- Weight: 5.3 lbs.
- One-year warranty

Part No. 27060CH Electronic center .... \$74.95 \$71.25 \$66.95

#### Third Hand

- · Frees hands for soldering · Two adjustable arms with
- alligator clip jaws
- 2" diameter magnifying lens
- Quick and easy rotation
- Sturdy, heavy base
- Weight: P/N 26690CH: 0.7 lbs.: P/N 72864CH: 1.4 lbs.

Part No.	Description	1	10	5
26690CH	Third hand	\$5.95	\$5.35	\$4.7
72864CH	W/ soldering holder	7.95	7.19	6.4

# 50 79

## Order Anytime, Day or Night

Our friendly sales department will take your order 24x7x365 by phone, fax, web or email.





#### PANAVISE Vacuum Base Vise

An exceptionally lightweight, portable vice that firmly attaches to any flat, smooth non-porous surface. A single knob locks the head into position, while a second locks the arm at any angle you select. This vise will hold any item weighing up to 3 pounds.



- · Head moves through three planes: 210° tilt, 360° turn and rotation
- Grooved jaws are excellent for holding small objects and are made of reinforced thermal alloy and opens up to 2.9"
- Fine/coarse adjustment knobs control jaw pressure
- Arm movement is 140°; positive indents control movement to prevent "flopping"
- Lever locks vacuum pad into place on any flat, smooth, non-porous surface
- Jaw size: 2"H x 1"W Overall height: 7.5"H
- · Base diameter: 3.4"
- · Weight: 0.8 lbs.

Part No.	Product No. 1	10
251791CH	209\$32.49	\$30.99

#### PANAVISE **Vacuum Vise**

- · Features the patented "split ball" that tilts, turns and rotates through three planes
- · Nylon jaws open a full 2.25'
- · Powerful suction pad for quick and easy set-up
- Size: 5.0"L x 4.0"W x 6.3"H
- · Weight: 3.3 lbs.
- · One-year warranty

Part No.	Product No. 1	10
27131CH	M381 <b>\$55.95</b>	\$53.25

#### PANAVISE PV Jr. Vise

- · Jaw opening: 2.8"
- Jaw size: 1" wide x 2" long
- Jaw heat tolerance: 350°F
- · Vertical/horizontal jaw grooves
- · Fine/course adjusting knob
- · The vise neck tilts, turns and rotates
- Vise height: 6.8"
- · Base bolt is 4.3" and fits all PanaVise base mounts
- Weight: 1.4 lbs.
- One-year warranty

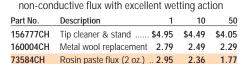
i ait ivo.	Description		10
134439CH	Jr. vise w/ mountable base	\$21.95	\$19.95

#### Soldering Tip Cleaner with Stand and Rosin Paste Flux

#### 156777CH:

Dart No

- · For cleaning soldering iron tips without the use of water and sponge
- Metal wool for cleaning
- Rubberized base for stability 156777CH 73584CH: Highly active non-corrosive and



For additional tools see pages 223 - 232.

#### Rosin Core Solder Rolls and Pocket Packs









		%	Compo	sition	Dia.	Wt.		Pric	ing	
Part No.	Mfr.	Tin	Lead	Silver	(ln.)	(lbs.)	1	10	50	100
73576CH	Kester (pak)	60	40	0	.031	0.04	\$2.59	\$2.33	\$1.86	\$1.40
32117CH	Kester	60	40	0	.031	1.00	13.19	11.89	10.69	9.59
73605CH	Kester (pak)	62	36	2	.020	0.10	1.75	1.49	1.31	1.15
112344CH	Kester	63	37	0	.020	1.00	18.99	16.06	14.99	14.24
151474CH	Kester*	63	37	0	.031	1.00	17.69	15.95	14.35	12.89
170456CH	Golden	60	40	0	.031	0.06	1.39	1.25	1.05	.99
141794CH	Super	60	40	0	.031	0.55	5.95	5.39	4.85	4.35
141786CH	Super	60	40	0	.031	1.10	7.95	6.95	6.25	5.59
141778CH	Super	60	40	0	.031	2.20	13.95	12.95	11.95	10.95

Organic core

#### **Lead-Free Solder Tip Tinner**

Prevents oxide buildup and tin depletion on the tip. Increases tip life and heat transfer resulting in a better solder joint!

• 0.7 oz. tin with self adhesive pad Safe a

Part No.	Description	1	10	50
132986CH	Lead-free tip tinner	\$4.95	\$4.59	\$4.19



#### 5' No-Clean Desolder Braids

Meets all of the most stringent soldering standards for worldwide application including:



MIL-F-142560D Type R, 139951CH 124126CH NASA specification NHB5300.4, NPC200-4 and SP-5002. · Length: 5'

Part No.	Description 1	10	100
139951CH	.030"W desolder braid \$2.25	\$1.95	\$1.75
124126CH	.060"W desolder braid 2.35	2.15	1.95
124118CH	.075"W desolder braid 2.39	2.15	1.95
263708CH	.098"W desolder braid 2.59	2.35	2.23

#### 5' Desoldering Braids

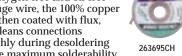
- · Easy-to-use, handy dispenser
- Braided copper with flux

Part No.	Description	1	10	100
41081CH	.079"W braid (5')	\$1.49	\$1.27	\$.95
41099CH	.098"W braid (5')	1.55	1.29	1.15
153461CH	.120"W braid (5')	1.59	1.39	1.25



Finest oxygen-free and oil-free fine-gauge wire, the 100% copper wick is then coated with flux,

which cleans connections thoroughly during desoldering to insure maximum solderability.



The thin coating of flux also provides depend-

• 263581CH with bobbin • Length: 5'

Part No.	Product No.	1	10	100
263695CH	1803-5F (0.075"W)	\$1.95	\$1.77	\$1.68
263599CH	1804-5F (0.098"W)	2.09	1.89	1.79
263581CH	1811-5F (0.098"W)	2.39	2.19	2.09

able, long lasting protection from oxidation.

#### Desoldering Wick

#### No more burnt fingers

- Handy dispenser
   Length: 5'
- · Pure copper braid · No clean flux formula
- Part No. Description 175986CH 0.067"W braid ...... \$2.99 \$2.69

#### Soldering Gun

This soldering gun with nozzle guide for solder is perfect for soldering through-hole components. Trigger action pulls out solder from the back of the soldering gun to the tip for the exact amount of solder.



- Power consumption: 40W • 120 VAC
- · Solder entrance at the back of gun accepts 0.8mm to 2.3mm diameter solder
- Single hand operation
- Lightweight
- Size: 7.5"L x 1.4"W x 5.9"H Weight: 0.7 lbs.

319169CH Single feed soldering gun \$37.15 \$33.19 \$31.55

#### Clip-On Heat Sink

- Absorbs and dissipates heat during soldering and desoldering sensitive parts
- Size: 2.7"L x 0.7"W



Part No. 159126CH \$2.65 \$2.25 \$1.69 HT156 .....

#### **Heat Sink and** 7-Piece Soldering Aid Kit



100378CH: Heat sink absorbs and dissipates heat during soldering & desoldering of sensitive parts 100503CH Includes soldering wick, 3 pc. scraper set, acid brush, clip-on heat sink and empty squirt bottle

Part No.	Description	1	10	50
100378CH	Heat sink	\$.89	\$.76	\$.57
100503CH	Soldering kit \$4.49	3.99	3.64	3.50

## **Plastic Pump Bottle**

- · 6 oz. bottle ESD compliant
- · Plastic bottle with
- dispenser cover



#### Jameco's Got the Docs

We offer free technical documents for most of the products we carry. Find them easily on the product spec page @ www.Jameco.com





#### 3X, 3-Bulb Adjustable **Magnifying Lamp**

Adjustable rectangular 3-diopter lens allows independent movement of the lens for best lighting and viewing angles.



Three 9-watt compact fluorescent bulbs located to the side and top of the lens provide superior lighting to your workspace or job at hand. The integral spring-balance arm reduces the chance of pinched hands from springs, and provides a sleek clean look.

 47" long arm 2 on/off buttons

· Color: beige UL listed · Weight: 8.15 lbs.

Part No. Description 217517CH Adj. magnifying lamp .... \$79.95 \$74.95 \$69.95

#### Tweezers with 8X Magnifier

The perfect combination hand tool for professionals working with small objects. Magnifying glass stays in perfect focus with tweezer heads.



- · Precision tip tweezers
- · 1.2" diameter 8 diopter lens

· Length: 3.8"

**Quantity SAVE** Part No. Description 217824CH Tweezer magnifier..... \$6.29

#### **General Purpose** Illuminated 3X Magnifier

Lower \$\$\$

- · 75mm diameter lens
- · Great for magnifying fine print Light requires 2 AA
- batteries, see below Size: 7.5"L x 3.75"Dia.

Part No.	Description	1	10	25
149542CH	Illuminated magnifier \$4.49 \$4	1.19	\$3.56	\$2.84
151087CH	1.5V AA battery (req. 2)	.20	.17	.16

## **Three Corner Touch Lights**

Banish dark corners in your drawers, closets or workshop where you always need more light. This set of three cornerready touch lights mount easily, and they're cordless, so they're all help and no hassle. MEW





Description

239345CH Three corner touch lights ...... \$7.35 \$6.62



#### 3X Magnifying Lamps

- 45" extension arm
- · Supplied with 22-watt circuline tube
- New wire clip design permits easy installation
- Extra strong, all-metal mounting base with electrical outlet
- Metal bulb holder for extra protection
- Power requirement: 110VAC/60Hz • 3X magnification • Weight: 7.3 lbs.

Part No.	Description	1	10	25
100829CH	Black lamp	\$59.95	\$53.95	\$49.95
149981CH	White lamp	59.95	53.95	49.95

#### **Standard Adjustable** 3X Magnifying Lamp

- · 4" Diameter lens
- · Maneuverable 30" arm extension
- Lamp tilts or turns in any direction
- Uses 60W incandescent bulb (not included)
- 3X magnification
- Power requirement: 110VAC/60Hz

Doccrintion

· Weight: 2.9 lbs.

\$4.80

raitivo.	Description		10	23
22710CH	Magnifying lamp	\$26.49	\$25.19	\$23.89

#### **Precision 5X Magnifying Lamp**

The arm extends to 40", is adjustable to any direction or angle, and has a 5X magnifying glass with built-in light. This is the perfect tool to help identify small electronic components and magnify a printed circuit board to help solder electronic components. 5" diameter lens
Weight: 7.1 lbs.

Power requirement: 110VAC/60Hz

Includes: 22W circuline fluorescent bulb

Part No.	Description	1	10	25
197456CH	Magnifying lamp	\$109.95	\$98.95	\$88.95

#### 3X Magnifier with Adjustable Stand

- · Heavy duty steel base
- · Size: 15"L (full stand) x 4"Dia. (base)

Part No.	Description	Wt. (lbs.)	1	10
148881CH	Magnifier	2.5	. \$13.95	\$12.56

#### Flexible Neck Magnifier

Never squint again at small fine print or have a hard time holding a magnifying glass while holding two other tools with only two hands. Just simply clamp the magnifying lens on to a table or workbench and adjust the flexible gooseneck into position.

3.5" diameter & 3x diopter lens · Arm length: 20" · Weight: 1.8 lbs.

Part No. Description Price 239548CH Flexible neck magnifier \$12.99 \$11.49

For Our Complete Selection of Tools see pages 201 - 211.

#### Super Bright, Super Reliable **LED Flashlights**

The perfect tool for individuals who really depend upon a flashlight that always works. Containing space-age solid-state circuitry, batteries last 14 times longer than conventional flashlights and function continuously up to one month. Its super bright white LEDs



215685CH

- · Waterproof, designed for all weather conditions
- Shockproof, withstands a drop from 4'
- Low cost per hour of operation
- Industrial grade switch, rated for 10,000 operations
- Rubber over-molding

215677CH: One month continuous operation using three "D" cell batteries (not included, P/N 215845CH, pg 183)

· Weight: 0.8 lbs.

215685CH: 25-days continuous operation using three "C" cell batteries (not included)

· Weight: 0.6 lb.

215693CH: 14-days continuous operation using three "AA" cell batteries (not included, P/N 198707CH, pg 183)

262422CH: 210 hours of continuous operation using 3 "AAAA" batteries (included)

261972CH: Headtorch delivers 330 hours of continuous operation using 3 "AA" batteries (not included, use P/N 198707CH, pg 183)

Part No.	Prod. No.	LEDs	Length	1	10
215677CH	LW-4000	10	10.6"	\$63.95	\$60.79
215685CH	LW-3000	7	8.9" \$53.	<sup>95</sup> 49.95	44.96
215693CH	LW-2100	4	7.9" \$33.	<sup>95</sup> 31.95	29.63
262422CH	LW-TEC1000	1	<b>—</b>	21.79	20.55
261972CH	LW-HT	4	<b>—</b>	37.95	34.16

#### 8-Position Flashlight Holder



The Lite-Lok would be useful enough as a tough, wall- or belt-mountable flashlight holster. But there's more! Clip the flashlight on your belt and lock it into one of eight positions for a "third hand" when working in dark areas. Includes Mini-Maglite®

Part No.	Description	Price
240004CH	Lite-Lok with mini AA flashlight	\$13.99

















135394CH - Electrolytic

135271CH - LFD

169578CH - Photocells 18294CH - Toy Motors

149649CH - Fans

55968CH - Spacers

319599CH - Cabinet

\* "LB" grab bag quantities are approximate • Opened grab bags are not returnable • Use our 20-drawer cabinet w/ labels to store your components, P/N 319599CH

Shaded in brown on this page you will find Jameco's nine most popular component Grab Bags. They are all individually bagged, and are combined to make up the Schwab's School Selection (P/N 163213CH) referenced towards the bottom of the page.

#### **Capacitors**

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10
17857CH	GB100	200 asst. ceramic disc capacitors	0.2	\$4.95	\$4.49
135335CH	GB100LB*	1 lb. (813 pcs) asst. ceramic disc caps.	1.0	12.95	11.49
17881CH	GB101	100 assorted mylar capacitors	0.3	5.95	5.35
135458CH	GB101LB*	1 lb. (440 pcs) asst. mylar capacitors	1.0	14.95	13.49
17911CH	GB102	100 assorted electrolytic capacitors radial, axial, snap	0.5	4.95	4.49
135394CH	GB102LB*	1.5 lb. assorted (300 pcs) electrolytic cap radial, axial, snap (photo above)	s. 1.5	12.95	11.49
17945CH	GB103	100 assorted tantalum capacitors (dipped epoxy and solid tubular)	0.1	9.95	8.95

#### Diodes, Transistors and Crystals/Oscillators

Part No.	Cross Ref. No.	Description \	Nt. (lbs.)	1	10	25
17961CH	GB107	200 assorted diodes				
		(zener, switching, silicon)	0.1 \$5	5.95	\$5.35	\$4.79
18171CH	GB127	100 assorted transistors				
		(NPN, PNP, power)	0.1 5	5.95	5.35	4.79
114446CH	GB150	50 assorted crystals/oscillators	0.2	7.95	6.95	6.25

#### **Trimmer and Single-Turn Potentiometers**

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10
18075CH	GB113 <b>⊙</b>	100 asst. 1/10W to 1/8W trimmer pots (100 $\Omega$ to 2M $\Omega$ values)	<del>\$6.</del> 95	55.15	\$4.66
18278CH	GB174	100 assorted 1/4W & 1/2W single turn pots (100 $\Omega$ to 5M $\Omega$ assorted values)	0.2	6.95	6.25
135407CH	GB174LB <b>*≎</b>	1 lb. (295 pcs) 1/4W & 1/2W single turpots (100 $\!\Omega$ to 5M $\!\Omega$ assorted values)	n <del>\$15.</del> 1.0 1	95  1.75	10.66

**②** Blue Part No. = Limited Quantity Available

#### **Integrated Circuits and Sockets**

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10
17996CH	GB108	100 assorted 7400, 74LS00 series			
		(74, 74C, 74F, 74S, 74ALS, 74HC, 74HCT	) 0.2 \$	6.95	\$6.25
135280CH	GB108LB*	1 lb. (400 pcs) asst. 7400, 74LS00 series			
		(74, 74C, 74F, 74S, 74ALS, 74HC, 74HCT	) 1.0 <b>1</b>	6.95	14.95
18024CH	GB109	100 asst. linear series (LM300, 500, 700,			
		7800, 7900 reg.) DIP, TO-3, TO-220	0.6	7.95	6.95
145242CH	GB109LB*	2 lb. (300 pcs) asst. linear series			
		(LM300, 500, 700, 7800, 7900 reg.)	2.0 <b>1</b>	6.95	14.95
105620CH	GB120	100 asst. sockets (DIP IC, PGA)	0.3	5.95	5.35
135386CH	GB120LB*	1 lb. (260 pcs) assorted sockets			
		(DIP, PGA, SIMM, SIP, DIN)	1.0 <b>1</b>	2.95	11.49



## **Get a Grip on Grab Bags**

Outfitting a workbench or getting a new lab assistant up and running? Get their workbench stocked with the components they need and minimize delays. Each of the grab bags on this page will do just that. They're cheaper than

buying piece-meal, and it takes far less time to order!

## **Practical Practices**

Money Saving Tips for the Engineer

#### LEDs and Displays

Part No.	Cross Ref. No.	Description V	Vt. (Ibs.)	1	10	25
18041CH	GB110	100 assorted sizes & colored LEDs				
		(T1&T1 <sup>3</sup> /4 round and rectangular)	0.1 <b>\$6</b>	.95	\$6.29	\$5.65
18323CH	GB186	500 asst. sizes #18041CH LEDs	0.3 <b>19</b>	.95	17.95	15.95
135271CH	GB110LB*	1 lb. (1900 pcs) asst. #18041CH LEDs	1.0 44	.95	40.95	38.95
18201CH	GB162	50 asst. sizes of colored displays				
		(7-segment LED, modules, stick)	0.5 <b>9</b>	.95	7.45	6.69

#### 1/4W, 1/2W Resistors and Photocells

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10
18104CH	GB116	200 asst. 1/4W resistors (5&10%)	0.1	\$5.49	\$4.95
135351CH	GB116LB*	1 lb. (2000 pcs) asst. 1/4W resistors	1.0	14.95	13.49
18139CH	GB117	200 asst. 1/2W resistors (5&10%)	0.2	5.95	5.35
169578CH	GB125	100 asst. values photocells	0.2	12.95	11.49

#### Switches, Toy Motors and Fans

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10
18235CH	GB165	50 assorted switches			
		(toggle, pushbutton, rocker, slide)	0.4	\$8.75	\$7.69
135378CH	GB165LB*	1 lb. (135 pcs) asst. #18235CH switches	3 1.0	18.95	16.95
18294CH	GB182	5 asst. toy DC motors (1.5-24V)	1.1	5.49	4.95
149649CH	GB193	5 asst. AC&DC fans (photo above)	4.5	8.75	7.69

#### **Hardware Assortments**

			<ul> <li>Screws</li> <li>Plan</li> </ul>	Stic		
<ul> <li>Nuts</li> </ul>	<ul> <li>Washers</li> </ul>	<ul><li>Steel</li><li>Brass</li></ul>	<ul> <li>Lock Washers</li> </ul>	<ul> <li>Aluminur</li> </ul>	n	
Part No.	Cross Ref. I	No. Description	Wt.	(lbs.) 1	10	25
171571CH	GB149*	1 lb. (500 pcs)	asst. types of screws	S,		
		nuts, washers &	lock washers	1.0 <b>\$5.95</b>	\$5.35	\$4.79
171635CH	• GB149LB*	3 lbs. (1400 pc	s) asst. types;			
		same as P/N 17	71571CH (above)	3.0 <b>12.95</b>	11.49	9.95

#### **Spacers and Standoffs Assortments**

<ul> <li>Round</li> </ul>	• Hex • All	ımınum • Brass • Steel •	Plastic	• Ny	ylon	
Part No.	Cross Ref. No.	Description V	/t. (lbs.)	1	10	25
166481CH	GB440	100 asst. 4-40 spacers/standoffs	0.5 <b>\$6.</b>	.95	\$6.25	\$5.59
166490CH	GB632	100 asst. 6-32 spacers/standoffs	0.5 <b>6.</b>	.95	6.25	5.59
55968CH	GB140	100 asst. 4-40, 6-32, 8-32 round/				
		hex, alum/brass/nylon spacers	0.3 <b>9.</b>	.95	8.95	7.25
135423CH	GB140LB*	1 lb. (310 pcs) same as P/N 55968CH	1.0 <b>17.</b>	.95	15.95	13.95

#### Schwab's School Selection

Jameco's nine most popular Grab Bags (highlighted on this page) are all individually bagged. North Dakota Engineer, Loren Schwab, recommended this selection of products as a standard item. He also recommended a 20-drawer component cabinet with labels (319599CH photo above) for storage.

cabinet with labels (319599CH photo above) for storage. What's your suggestion? Includes: Ceramic and electrolytic capacitors, diodes, transistors, potentiometers, LEDs, 1/4W resistors, switches, spacers and standoffs.

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10
163213CH	GB197	Schwab's School Selection	3.3 \$	39.95	\$34.95
319599CH	GB197	20 drawer component cabinet	4.7	15.95	13.95

Visit our website to find more products www.Jameco.com



#### **Heat Sink Compound**

· 1 gram tube

5/pack

Part No.

· Color: white gel



#### **Heat Sink Compound**

Thermally loaded silicone-based grease that improves transfer of energy across the metal to metal interface between transistor or rectifier to heat sink.



**Quantity SAVE** 

· Color: opaque white

	' '			
Part No.	Mfr. Cross Ref. No.	1	10	100
167249CH	THM250 (2 oz.)	\$9.95	\$8.96	\$8.06
236822CH	54114 (1 oz.)	4.95	4.21	3.16

#### Heat Sink Compound 4-oz. Tube

This silicone-free compound provides more effective heat transfer. Will not harden, dry out, melt, or contaminate wave-solder baths.



Part No.	Product No.	1	10
169252CH	1978DP	\$16.95	\$14.95

#### **Heat Sink Mounting Kits**



· TO-3 and TO-220 heat sink insulator assemblies

· 10 kits per pack

Part No.	Туре	Description 1	10	100
34121CH	TO-220	5 pcs per kit \$3.95	\$3.55	\$3.19
34139CH	TO-3	12 pcs per kit 3.95	3.59	3.25

#### MIN Direct Etch PCB "Starter" Set

Includes: 4 blank circuit boards, dry concentrated ferric chloride etchant, instructions, 8 sheets of direct etch donuts, DIP. patterns, lines and 1/32" & 1/16" etch resist tape.



Part No.	Product No.	Wt. (lbs.)	1	10
70412CH	ER1	0.7 \$1	1.95	\$10.95

#### Pre-Sensitized Circuit **Boards & Developer**

· Pre-coated circuit board

• Size: 3.0"L x 4.0"W x 1/16"T

Includes:	Instructions	156	751CH	7	-	
Part No.	Description	Wt.	(lbs.)	1	10	25
156751CH	Single sided	_	\$4	.95	\$4.49	\$3.95
156742CH	Double sided	_	6	.49	5.85	5.25
156734CH	4 oz. Pos. developer*	0.6	6	.95	5.95	4.95
*Shipped via UPS ground to continental U.S. only						

#### **Quantity SAVE** Acid Brush

· Used for application of reactive solvents Part No. Description 1 10 100

#### 1000 153322CH Metal handle, 6" \$.65 \$.59

## **TECHSPRAY**

Safe on plastics EPA SNAP approved, no









Workshop Chemicals







263564CH 263572CH 263548CH 263556CH

#### Envi•Ro•Tech™ Duster

Removes microscopic contaminants, lime, dust, metallic oxide, deposits, and other soils without the use of harmful solvents.

Part No.	Description	Wt. (lbs.)	1	12
139900CH	10 oz. aerosol w/	' trigger* 0.8 <b>\$6</b>	.95	\$6.25
263530CH	15 oz. aerosol w/	' trigger <b>*</b> 0.8 <b>8</b>	.25	7.49

#### Envi•Ro•Tech™ Freezer

Rapidly ev	aporating liquid th	at can chill	to -6	32°F.
Part No.	Description	Wt. (lbs.)	1	12
139934CH	10 oz. aerosol can*	0.8 <b>\$8</b>	.99	\$7.99

#### **ECOLINE Flux Remover**

<ul> <li>Dissolves</li> </ul>	R, RMA, RA, SA & I	most no-cle	an fl	uxes
Part No.	Description	Wt. (lbs.)	1	12
118041CH	10 oz. flux remover*	0.8 <b>\$9</b>	.49	\$8.55

#### **ECOLINE Contact Cleaner**

· Ideal for switches, relays & other places on electrical Will not damage switch housings connections Part No Description Wt. (lbs.) 1 118033CH 10 oz. contact cleaner\* 0.9 ... \$8.95 \$7.95

#### TechClean® Wiper

This hydro-entangled cellulose/polyester wipe has high absorbency with extra-low particulate and chemical extractables.

Part No.	Description	Wt. (lbs.)	1	12
263564CH	100 sheet/pk	1.1 \$	15.59	\$14.25

#### **Isopropyl Alcohol**

99.8%+ pure, anhydrous isopropanol for allpurpose cleaning. Excellent for tape head cleaning, removal of fluxes, light oils, polar soils, and white mineral residue.

Part No.	Description	Wt. (lbs.)	1	12
263572CH	1 pint bottle*	1.1	\$7.35	\$6.69

<sup>\*</sup>Shipped via UPS ground to continental U.S. only

#### MMM Photo Etch™ Printed Circuit Kit

Generate vour own 1:1 artwork. Then use the patented Fast Neg film process to make a photo negative and sensitize and expose a blank copper board. Finish by developing &



10

etching. No camera or darkroom is required. Part No. Product No. Wt. (lbs.) 16731CH 12-750\* 4.6 ..... \$39.95 \$36.95

#### **Dry Concentrated** DATAK

 Makes one pint of etch solution



**Etchant** 

#### Fine-L-Kote™ Silicone Conformal Coating

A type SR silicone resin conformal coating that has excellent moisture and fungus resistance properties, offers chemical resistance and is recommended for harsh environments. Contains Opti/Scan<sup>™</sup> to allow for black light inspection.

Part No.	Description	Wt. (lbs.)	1	12
263548CH	12 oz aerosol can'	10	\$16.79	\$15.95

#### Fine-L-Kote™ Urethane Conformal Coating

As a urethane coating, this is highly resistant to most solvents, moisture, fungus, and molds. A clear, repairable coating, it is formulated with a black light indicator Opti/Scan, to provide checks for conformity in quality control.

Part No.	Description \	Vt. (Ibs.)	1	12
263556CH	12 oz. aerosol can*	1.0	\$15.45	\$14.69

#### Flux Remover Pen

A unique combination of hydrocarbon solvents and alcohols makes it an excellent defluxer. This can also be used as an all-purpose cleaner for removal of light oils, silicones, waxes, greases, and similar contaminants.

Part No.	Product No.	Wt. (lbs.)	1	12
263724CH	11.5 ml pen	0.1	\$6.19	\$5.61

#### Conductive Pen

Contains a fast-drying, silver-filled ink designed to quickly make highly conductive silver traces.

- Repairs traces
- Links components
- Makes smooth jumpers
- Shields components

Part No. Wt. (lbs.) 1 263716CH 4.89 ml pen 0.1 ..... \$12.69 \$12.05

#### **Overcoat Green Pen**

Designed to insulate printed circuit board traces and components against high voltage arcing, and provides protection from moisture. Configured for rework and repair where precision application is necessary.

- Protects conductive pen traces
- · Repairs permanent solder mask

Part No.	Description	Wt. (lbs.)	1	12
263732CH	5 ml pen	0.1	\$9.85	\$9.36

## Over 99% of Our **Products Are In Stock**

Place your order by 6PM EST for same business day shipment.

Shipped via UPS ground to continental U.S. only

## JAMECO

#### Solderless Breadboards

**Value**Pro Feature screen-printed color coordinates suitable for many types of digital and analog prototyping, and circuit design. Larger models feature a heavy-duty aluminum backing with binding posts. Use Jameco's AC/DC breadboard power supply, P/N 77681CH (pg 243).

- · Accepts most electronic components, including integrated circuits and transistors for digital and/or analog circuitry • 0.1" hole spacing
- Pins are identified by numbered rows and columns
- Ideal for high frequency and low noise circuits
  One-year warranty \* WBU5 and JE series do not interconnect









20811CH

#### Attention Educators! Buy jumper wire (pg 243) in bulk and SAVE! (see Hook-up Wire on page 88)

#### WBU5 Series Key Features:

- · Horizontal assembly corresponds to the operation flow design of the PC boards for handy operation
- Round hole design makes the electric connection better
- · Formed with V-shaped cross-sectional groove, which allows DIP IC pins to be inserted across two parts and to increase the rate of utilization due to small pitch
- Dovetail protrusions and recesses designed to connect two adjacent parts tightly together

#### JE Series Key Features:

- · Use to breadboard and debug circuit designs
- Low static, plastic body CMOS safe
- · Nickel-plated clips designed to withstand up to 5,000 insertion cycles
- · Breadboard strips connect together to form larger working areas
- Components are easily interconnected using 20-28 AWG wire (P/N 19289CH & 20079CH, pg 243)
- · Some models feature heavy-duty aluminum backings (JE24, JE27, WBU504)









22CH	77825CH	-
22011	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	

Part	Product	Terminal	Bus	Contact	Binding	Breadboard	Baseplate	Weight		Pri	cing	
Number	Number	Strips	Strips	Points	Posts	Size L" x W"	Size L" x W"	(lbs.)	1	10	50	100
94457CH	JE19	0	1	100	0	6.5 x 0.4	_	0.04	\$2.95	\$2.65	\$2.39	\$2.15
20600CH	JE21	1	2	400	0	3.3 x 2.1	_	0.13	5.25	4.73	4.25	3.83
20669CH	JE22	1	0	630	0	6.5 x 1.4	_	0.20	5.49	4.95	4.49	3.95
194280CH	JE35	1	1	740	0	6.9 x 2.1	_	بـ 0.23	9.95 8.95	8.06	6.44	4.83
194298CH	JE37	1	2	840	0	6.9 x 2.4	_	0.25	9.95	8.95	7.95	7.25
194255CH	JE38	1	2	970	4	2.9 x 5.6	4.9 x 6.3	0.50	16.95	15.25	13.75	12.35
20722CH	JE23	1	2	830	0	6.5 x 4.0	6.5 x 2.1	0.30	9.39	8.45	7.61	6.85
194271CH	JE34	2	3	1,560	3	6.5 x 4.0	8.5 x 4.7	0.73	15.95	14.39	12.95	11.65
20757CH	JE24	2	1	1,360	2	6.5 x 3.1	8.5 x 4.0	0.60	13.65	12.28	11.06	9.95
136901CH	WBU504*	2	3	1,855	4	5.5 x 5.5	7.4 x 6.3	0.90	22.99	20.99	18.99	16.99
20773CH	JE25	2	4	1,660	3	6.5 x 4.3	8.5 x 5.1	0.80	19.95	17.95	16.16	14.54
20790CH	JE26	3	5	2,390	4	6.9 x 5.8	9.1 x 6.9	1.10	27.29	24.56	22.10	19.89
20811CH	JE27	4	7	3,220	. 4	7.3 x 7.5	9.5 x 8.3	1.40	33.59	30.23	27.21	24.49

	Great Savings on Breadboard Test Leads			
Part No.	Description	1	10	25
77825CH	Breadboard pin to breadboard pin test leads (20 pk), 4 each color-coded (red, yellow, blue, black, white), 20 AWG wire, 5.9"L (15cm)	\$12.95	\$11.69	\$10.49

#### **PLCC Prototype Adapters**

PLCC socket mounted on a circuit board for easy wire wrap or design prototyping. Solder masked PCB with 0.25" long leads.



Quantity SAVE 73550CH

- PCB construction Gold-plated round pins Silkscreen numbers identify pin numbers in groups of 5 and 10 • Tin-plated PLCC connector
- PLCC socket identifies pin 1 and orientation key
- PLCC socket slotted for PLCC chip remover

Part No.	Pins	Size (L x W)	1	10	100
73541CH	44	2.3" x 1.6" \$	11.95	\$10.79	\$9.69
73550CH	68	3.4" x 1.6"	15.95	13.56	10.17
73568CH	84	4.3" x 1.9" 2	23.95	20.36	15.27

**PCI-Bus Extender Card** 

PCI-bus extender card ...... \$74.95

## **PCI-Bus Prototype Board**

- · All plated through holes
- 0.1" hole spacing 50 Mil power and
- ground grids Provision for wire
- wrap and bypass caps



- Impedance matched to bus specifications
- Easy access to every signal on the bus
- Size: 12.4"L x 5.0"W · Weight: 0.6 lbs

Part No. Description PCI prototype bus board 141372CH \$62.96

# Making Your Own

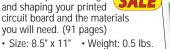
#### **Printed Circuit Board Book** JV Enterprises No darkroom or special equipment needed

Shows steps for drilling and shaping your printed circuit board and the materials you will need. (91 pages)

10

\$67.49





Part No. Description <del>\$19.95</del> \$17.95 141524CH Making PCBs Book

#### 8/16-Bit ISA Solderless Plug-In Breadboard



- · IBM PC/XT/AT and higher compatible
- 62 data I/O lines and a DB25 female connector for interfacing to peripherals Twenty-four 14-pin IC capacity



- · Clearly labeled bus lines
- · 2,352 contact points
- · Durable construction
- · One-year warranty · Weight: 1.0 lb. • Size: 13.8"L x 5.0"W

Part No. Description Description \$59.95 1 10 25 8/16-bit breadboard \$49.95 \$48.60 \$47.24 81672CH

For Jameco's **Surface Mount Prototyping Boards.** See page 246





Part No.

141381CH

PCI bus

· Extends life of

for long life

Gold-plated fingers

Size: 5.9"L x 5.4"W

motherboard connectors

Description

201890CH

Lower \$\$\$

Our most popular

digital lab!

International 115/220VAC

Switchable

#### Wire Jumper Kit (350 pcs.)

- · 25 each 0.1" to 5.0" lengths (14 sizes)
- 350 assorted lengths in 13 colors

· Pre-stripped/preformed 22 AWG solid wire jumpers



#### 19289CH: 350-piece wire jumper kit · Handy, durable, clear plastic case

#### 20079CH: 350-piece refill for 19289CH

Case not included

Part No.	Description	1	10	50	100
19289CH	Wire jumper kit	\$15.95	\$14.39	\$12.95	\$11.65
20079CH	Refill for 19289CH	10.99	9.89	8.90	8.01

#### **Reinforced Jumper Wires**

- 24 AWG-300 volts
- · Reinforced pin ends for durability
- 10 pack assortment: 2 each yellow, white, red, black & blue



Part	Mfr. Cross	Length	12	034 ГСП	
Number	Ref. No.	(mm / inch)	1	10	100
126359CH	JW50	50 / 1.97	\$3.95	\$3.49	\$2.95
126341CH	JW100	100 / 3.94	4.95	4.49	4.05
126324CH	JW200	200 / 7.87	5.19	4.69	4.25

#### **Resistance and Capacitance Decade Substitution Boxes**

Wide-range decade substitution boxes for product design or calibration checks.

- · Light durable construction
- · Case may be
- grounded separately
- Three binding posts permit isolated substitutions
- Size: 4.7"W x 5.7"H x 1.4"D
- · Weight: 0.7 lbs.

- · 1% resistance substitution from  $1\Omega$  to  $11.111110 M\Omega$
- 7 decade ranges of resistance
- · Values can be changed in  $1\Omega$  increments

- · 5% capacitance substitution from 100pF to 11.111uF
- 5 decade ranges of capacitance



EXTECH

......

ITTITES.

......

211668CH

Part No.	Description 1	10
211668CH	Resistance \$98.95	\$93.95
211676CH	Capacitance 128.95	122.45

## Commercial Customers

Open an account with us to consolidate your monthly billing and save time.

#### Digital/Analog Design Labs

· Two 7-segment displays (digit height: 0.3")

One-year warranty

Solderless Breadboard

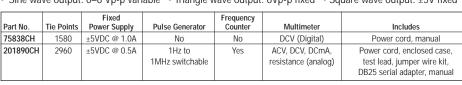
· Interconnected nickel-plated tie points, fitting all DIP sizes and all components with AWG #22-30 (0.3-0.8mm) solid leads

#### DC Power Supplies

- DC supplies equipped
- with short circuit protection
- Variable DC power: 0 to +15V & 0 to -15V @ 0.5A

#### Function Generator (5 ranges)

- Frequency ranges: 1Hz–10Hz, 10Hz–100Hz, 100Hz-1kHz, 1kHz-10kHz, 10kHz-100kHz
- 75838CH Sine wave output: 0-8 Vp-p variable
   Triangle wave output: 6Vp-p fixed
   Square wave output: ±5V fixed



			1			
Part No.	Description	Size (W" x D" x H")	Weight (lbs.)	1	10	25
75838CH	Digital lab	10.6 x 13.3 x 5.0	8.1	\$276.95	\$249.95	\$226.95
201890CH	Digital/analog lab	13.9 x 12.8 x 4.9 (back panel)	11.8	. 429.95	365.46	305.56

#### Digital/Analog Design Lab

#### Solderless Breadboard

· 2712 interconnected nickel-plated tie points, fitting all DIP sizes and all components with AWG #22-30 (0.3-0.8mm) solid leads International

#### DC Power Supplies

 Variable DC output: 0 to +15V & 0 to -15V @ 500mA Fixed DC output: +5VDC @ 1A; -5VDC @ 300mA

Input power: 120/220VAC @ 50-60Hz (switchable)

- Function Generator Frequency ranges: 1Hz-10Hz, 10Hz-100Hz, 100Hz-1kHz, 1kHz-10kHz, 10kHz-100kHz • Sine wave output: 0-8 Vpp variable • Triangle wave output: 0-6 Vpp variable • Square wave output: 0-8 Vpp variable
- 2 variable resistors: VR1=1k $\Omega$ , VR2=100k $\Omega$  8 data switches 2.5" dia. 8 $\Omega$ , 25W speaker
- 2 pulse switches (2 sets of outputs: Ā, A, Ā, B, B) 2 banana sockets, 2 BNC jacks One-year warranty
- Two 7-segment LED displays (digit height: 0.3") 8 red LEDs with separate input terminals

#### Includes: Power cord and manual

Part No.	Description	Size (W" x D" x H")	Wt. (lbs.)	1	10	25
136266CH	Digital/analog lab	12.8 x 9.8 x 3.7	8.5	\$379.95	\$341.99	\$307.79
319214CH	Replacement breadboard	6.7 x 6.5 x 0.4	0.5	24.45	22.28	21.16

## **Powered Project Board**

- · Solderless breadboard with 2420 tie points
- DC power supplies: +5V @ 1A; variable power 0 to +15VDC and 0 to -15VDC @ 500mA
- Back panel has ground terminal
- **Outputs** are shortcircuit protected
- Edge plate for non-DIP size components
- Input power: 120/220VAC @ 50-60Hz (switchable)
- Replacement fuse: P/N 103907CH, pg 79
- Power switch with light
- Breadboard size: 7.4"L x 6.8"W
- 120/220VAC • Enclosure size: 9.8"L x 8.0"W x 2.6"H Switchable

• Weight: 6.8 lbs. • One-year warranty

Includes: Power cord

Part No.	Description	1	10	25
136258CH	Powered breadboard	\$99.95	\$89.95	\$87.95





International

AC/DC Power Supply

#### Ideal for Breadboards on previous page



120/220VAC

Switchable

+5VDC @ 1A; -5V @ 300mA fixed; 0 to +15VDC @ 500mA variable, 0 to - 15VDC @ 300mA variable; 12-6-0-6-12 tapped VAC,

Output Specifications:

#### With built-in short-proof regulated power supplies.

- Input power: 120/220VAC @ 50-60Hz (switchable)
- · Indicator lamps and power fuses
- Just plug-in and start to use
- Compact & lightweight
- For both digital and analog circuits
- Compatible with test leads P/N 77841CH, pg 220
- Size: 7.4"W x 5.5"D x 2.6"H Color: beige
- · Weight: 5.5 lbs. One-year warranty

Part No. Description 10 77681CH Power supply ... \$119.95 \$109.95 \$99.95



See pages 214 - 215 for Jameco's complete selection of Power Supplies.





#### JAMECO ValuePro

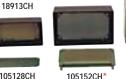
The prototype builder boards on pg. 245 are designed to fit into our ABS plastic and aluminum enclosures, metal cabinets and heavy-duty instrument cases. The pre-cut boards have 2 or 4 mounting holes compatible with the PC board mounting hardware listed on

pg 245 (P/N 106551CH). **Board description:** laminated glass epoxy 1/16" thick fire retardant per FR-4 specs. Copper-clad and solder mask one side. Drilled holes: .035" diameter on .080" square pad. Pads spaced on .10" x .10" grid.

#### **Enclosures**

See pages 144 - 145 for hardware and knobs





18892CH





208901CH

208910CH

105128CH 105099CH 105136CH\* \*All boards sold individually see pg 245; multiple boards shown

#### ABS Plastic Enclosures

Lid has a lip for precision fit (adds 0.4" height). Complete with four screws and lid. All sizes below are for interior dimensions.

Part No.	Product No.	Size (L x W x D)	Wt. (lbs.)	1	10	50	100
18921CH	H2855	3.1" x 2.0" x 0.9"	0.1	. \$3.15	\$2.84	\$2.55	\$2.30
18913CH	H2853	4.9" x 2.5" x 1.5"	0.2	3.69	3.32	2.99	2.69
18892CH	H2851	6.0" x 3.5" x 1.9"	0.4	4.79	4.31	3.88	3.49
18905CH	H2852	7 5" x 4 3" x 2 3"	0.5	6.89	6.20	5 58	5.02

# 18913CH

## **Die-Cast Aluminum Enclosures**

Ideal for RF circuits. Made from aluminum, an excellent heat-sink, these cases are great for high temp circuits (up to 600°C). Complete with screws. 11973CH

I	(I-	, I		11773011		_
Part No.	Product No.	Size (L x W x D)	Wt. (lbs.) 1	10	50	100
11957CH	B5002	3.9" x 2.0" x 1.0"	0.2 <b>\$5.9</b> 5	\$5.39	\$4.85	\$4.35
11965CH	B5004	4.7" x 2.4" x 1.6"	0.4 8.49	7.64	6.88	6.19
11973CH	B5006	7.5" x 4.3" x 2.4"	1.2 <b>13.9</b> 5	12.56	11.30	10.17

#### Aluminum Enclosures 4

Put them in an economical aluminum enclosure. The enclosure comes in two pieces which slide to



Quantity	SAVE		
	885CH		4
ogethe	r.		
1	10	50	100

die comes	m two pieces w	men sinae t	ogen	ici.	_	
Product No.	Size (L x W x D)	Wt. (lbs.)	1	10	50	100
B2300	4.0" x 2.0" x 2.8"	0.2 \$	5.45	\$4.90	\$3.92	\$2.94
B2320	5.0" x 4.0" x 3.0"	0.4	7.89	7.10	5.68	4.26
B2335	7.0" x 6.2" x 4.6"	0.8 10	0.95	9.86	7.88	5.91

EXCLUSIVE

#### Metal Enclosures

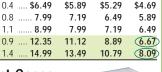
Mounting screws and rubber feet included

	ack textured I ivory alumii		Quantity SAVE		208928CH
Part No.	Product No.	Size (L x W x D)	Wt. (lbs.)	1	10
208901CH	B2741A	4.0" x 3.3" x 2.2"	0.4 \$6.	49	\$5.89
208910CH	B2743A	5.9" x 5.3" x 3.0"	0.8 7.	99	7.19

7.3" x 6.3" x 2.8"

6.3" x 7.8" x 2.5"

7.5" x 9.8" x 3.2"



#### **Heavy-Duty Instrument Cases**

P/N 18876CH includes ventilation and speaker sound slots.

B2744A

B2746A

B2747A

Color: gray	18868CH
Color: gray	18868CF

Part No.	Product No.	Size (L x W x D)	Wt. (lbs.) 1	10	50	100
18868CH	H2505	7.9" x 6.3" x 2.5"	0.8 <b>\$7.89</b>	\$7.10	\$6.39	\$5.75
18876CH	H2507	10.0" x 7.5" x 3.1"	1.4 <b>8.99</b>	7.99	7.28	6.55

#### ABS Enclosures w/ Clear Tops

Includes screws for mounting boards or electronic components, rubber gasket for a tight seal on your equipment & drilled holes for mounting.



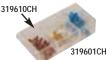
Part No.	Product No.	Size (L x W x D)	Wt. (lbs.) 1	10	50	100
141831CH	203C1	4.6" x 3.2" x 1.8"	0.3 <b>\$8.95</b>	\$8.09	\$7.25	\$6.55
141840CH	203D1	6.3" x 3.2" x 1.8"	0.4 <b>9.95</b>	8.99	8.09	7.25
141858CH	203F1	7.0" x 5.5" x 2.5"	0.8 <b>11.95</b>	10.79	9.69	8.69

11869CH 11885CH

11893CH

#### Component Cabinet





319599CH

Drawer (319601CH) Divider (319610CH)

- · Drawer can be divided into 3 sections (clear)
- · Wall mountable cabinet (ABS black)
- Cabinet size: 6.0"D x 14.7"W x 7.4"H
   Wt.: 2.8 lbs. 319601CH size: 5.5"L x 2.7"W 1.5"H

319610CH size: 2.5"W x 1.2"H 85454CH size: 5.5"L x 2.7"W x 1.5"H

85446CH size: 2.4"L x 1.1"H Includes: 20 clear plastic drawers,

20 dividers and 30 adhesive I.D. labels

\* Prepackaged: order in increments of 10 or 50

Part No.	Description	1	10	50
319599CH	Component cabinet	\$15.95	\$13.95	\$12.49
319601CH	Drawer for cabinet	39	.35	.294
319610CH	Divider for cabinet	*	.19	.17
85454CH	Drawer for P/N 8170	139	.35	.29
85446CH	Divider for P/N 8170	1 *	.19	.17

#### JAMECO ValuePro

#### Plastic Fliptop Box

#### Double-Sided Box

· Unique double-sided design allows box to be opened from both top and bottom • Size: 6.5"L x 4.0"W x 1.5"H



#### JAMECO ValuePro

#### **Plastic Fliptop Boxes**

208928CH

209349CH

209357CH

· Clear plastic box with a clear plastic lid and removable dividers

100255CH: Size: 8.4"L x 4.5"W x 1.4"H • 18 compartments (1.4" x 1.5" each)

**148902CH:** Size: 10.2"L x 4.7"W x 1.6"H

12 compartments (1.7" x 2.3" each)

		,	100200	
Part No.	Description	1	10	100
100255CH	18 compartments	\$2.25	\$1.95	\$1.75
148902CH	12 compartments	3.95	3.49	2.95

#### **Plastic Fliptop** Case for SMDs

128 Compartments for Surface Mount Components

- 8 rows x 16 columns grid
- · Fliptop openings on each bin
- Padded cover locks bins closed
- Perfect match to store P/N 156881CH SMD resistor assortment, pg 72 · Weight: 1.4 lbs.
- Size: 11.0"L x 8.3"W x 1.7"Thick Color: gray Includes: Labels for each bin

Part No. Description 10 164267CH SMD fliptop case ..... \$49.95 \$44.99

Part No.

#### JAMECO ValuePro Stackable Drawers

Case size: 4.5"L x 4.4"W x 2.3"H

 Drawer size: 4.4"L x 4.0"W x 0.9"H Color: blue/white



#### **Bug Boxes**

· Anti-static plastic · Fits in bug cage

(P/N 11332CH, below)

11341CH: stores sixty

8-pin or thirty 16-pin DIPs

11375CH: Designed to store all types of components Box size: 4.9"L x 3.3"W x 0.6"H

Part No. Description

i ait ivo.	Description		10	100
11341CH	30 compartments	\$3.95	\$3.49	\$3.15
11375CH	3 compart./6 vertical			
	& 6 horizontal dividers	3.95	3.56	3.20

EXCLUSIVE

#### Bug Trays 11800CH

· Fits in bug cage (P/N 11332CH, below)

11826CH Open:

1 compartment 4.6"L x 3.2"W x 0.4"H

11800CH Divided: 10 compartments 3.2"L x 0.4"W x 0.4"H ea. • Tray size: 4.8"L x 3.6"W x 0.5"H

Part No.	Description 1	10	10
11826CH	Open bug tray \$1.79	\$1.61	\$1.4
11800CH	Divided bug tray 3.19	2.87	2.5

#### Bug Cage

- · Holds bug boxes or trays
- · Modular and interlocking
- Weight: 0.7 lbs. Color: blue







11826CH





#### JAMECO' General Purpose Prototyping Boards **Value**Pr

Select the prototype board that fits your needs from our comprehensive product listing. Prototyping boards with punched holes are convenient, economical tools for assembling circuit components and trying cost-effective alternatives to custom designs.



 PCB material epoxy glass 0.08" pad size

· Plated through pads are double-sided







52943CH







**Quantity SAVE** 

21434CH



106551CH



Holes Only

R

**Circuit Patterns** 

21477CH



See PCB enclosures on pg 244, mounting hardware (recommend P/N 106551CH) b

elow	

Pad Per Hole

3 Hole Solder Pad Power/Ground Perimeter Bus with Pad Per Hole and Bus

Part	Product	Size	Fits Enclosure(s)	Circuit	Hole	# Holes	Power/Ground	Connector	# Mounting	Weight	Pricing			
Number	Number	(W" x L")	(see page 245)	Pattern	Pads	x Dia. †	Busses	I/O or Edge	Holes x Dia.	(lbs.)	1	10	50	100
105099CH	2855PCB	1.60 x 2.70	18921CH	В	Single-sided	288 x .035"	None	None	2 x .115"	.02	\$5.25	\$4.73	\$4.25	\$3.83
105101CH	5002PCB	1.50 x 3.50	11957CH	С	Single-sided	365 x .038"	4	None	2 x .140"	.02	6.95	6.25	5.59	4.95
263185CH	PCB-403	1.80 x 3.10	18921CH	В	Plated through	300 x .042"	None	None	4 x .115"	.03	6.95	6.25	5.63	5.09
105128CH	2853PCB	2.00 x 4.40	18913CH, 11965CH	С	Single-sided	669 x .038"	4	None	4 x .140"	.03	7.95	6.95	6.25	5.59
105110CH	2300PCB	2.40 x 3.40	11869CH	С	Single-sided	637 x .038"	4	None	2 x .140"	.03	7.95	6.95	6.25	5.59
263206CH	PCB-463	2.40 x 4.10	N/A	В	Plated through	640 x .042"	None	None	4 x .120"	.05	8.95	8.09	7.25	6.55
263214CH	PCB-858	2.50 x 4.50	18913CH	В	Plated through	640 x .042"	None	None	4 x .120"	.05	8.95	8.09	7.25	6.55
105152CH	2851PCB	3.10 x 5.50	18892CH	С	Single-sided	1450 x .035"	7	None	4 x .140"	.07	9.95	8.95	7.95	6.95
263222CH	PCB-69	3.30 x 3.70	N/A	В	Single-sided	900 x .042"	None	None	4 x .120"	.05	8.95	8.09	7.25	6.55
105136CH	2320PCB	3.30 x 4.50	11885CH	С	Single-sided	1266 x .035"	4	None	4 x .140"	.06	9.95	8.95	7.95	6.95
105161CH	2852PCB	3.60 x 7.00	18905CH, 11973CH	В	Single-sided	2225 x .035"	4	None	4 x .140"	.10	14.95	13.45	11.95	10.95
206586CH	2746APCB	4.30 x 6.80	209349CH	С	Single-sided	2550 x .042"	5	None	4 x .140"	.07	10.95	9.86	8.87	7.98
21434CH	JE401(8001)	4.50 x 6.50	18868CH	B/D	Single-sided	2360 x .042"	2	None	None	.12	21.95	19.76	17.78	16.00
21451CH	JE405(8003)	4.50 x 6.50	18868CH	С	Single-sided	2360 x .042"	1	None	None	.12	19.95	17.95	14.36	10.77
206578CH	2743APCB	4.60 x 4.30	208910CH	С	Single-sided	1684 x .042"	5	None	4 x .140"	.07	7.49	6.74	6.07	5.46
105179CH	2505PCB	5.00 x 6.50	11893CH, 18868CH	С	Single-sided	2829 x .035"	7	None	8 x .120"	.13	14.95	13.49	11.95	10.95
21477CH	JE407(8006)	5.00 x 13.25	N/A	В	Plated through	6063 x .038"	None	None	8 x .120"	.28	41.19	37.07	29.66	22.24
206594CH	2747APCB	5.50 x 8.00	209357CH	С	Single-sided	3906 x .042"	5	None	4 x .140"	1.0	14.99	13.49	10.79	8.09
105187CH	2507PCB	6.10 x 8.80	18876CH	С	Single-sided	4771 x .035"	7	None	8 x .140"	.21	29.95	26.96	21.56	16.17
263231CH	PCB-7038	8.30 x 11.9	N/A	В	Plated through	8819 x .042"	10	5	4 x .115"	.40	55.95	52.19	49.59	47.09

	Other Manufacturers — Limited Great Deals SALE													
28177CH	PCB1	2.42 x 4.10	18913CH	С	Plated through	674 x .040"	None	None	4 x .120"	.04	\$5.95	\$5.35	\$4.79	\$4.29
43140CH	64P44XXXP*	4.50 x 6.50	18868CH	Α	Drilled only	2860 x .042"	None	None	None	.09	5.75	5.66	5.56	5.46
52943CH	84P44WE	4.50 x 8.50	18876CH	Α	Drilled only	3740 x .042"	None	None	None	.15	8.99	8.85	8.71	8.57
37604CH	169P44WE	4.50 x 17.0	N/A	Α	Drilled only	7524 x .042"	None	None	None	.31	16.25	15.66	15.06	14.47
37612CH	169P44XXXP*	4.50 x 17.0	N/A	Α	Drilled only	7524 x .042"	None	None	None	.25	10.69	10.49	10.28	10.09
28193CH	PCB3	5.00 x 8.00	18876CH	С	Plated through	3705 x .042"	4	Mounting area-I/O	4 x .120"	.17	21.95	19.76	17.78	16.00
37621CH	169P84WE	8.50 x 17.0	N/A	Α	Drilled only	14,448 x .042"	None	None	None	.53	22.99	22.16	21.33	20.50
106551CH	20 pieces PC	board mounting	ng hardware (4 spacers, 8	screws ar	nd 8 washers) used	with all above box	ards				1.79	1.65	1.45	1.35

10

None

13 x .115

50

55.95

Fig. 1

52.19

49.59

EXCLUSIVE

Fig. 3

Fig. 2

47.09

11,000 x .042"

N/A

#### VECTOR Wire Wrap and Push-In Terminals

For .042" Diameter Holes

PCB-6088

9.20 x 13.0

263249CH

Specifications:

Part

Number

34147CH

34155CH

34163CH

· Material: copper alloy · Prebagged 100 pcs.

34147CH: Push-In Micro-Klip Terminals • Overall length: .36" • Post size: .032" x .045'

34155CH: Miniwrap Wiring Terminals • Shoulder: .045

Two-prong with square tail for wire wrapping

Overall length: .69"
 Post size: .025"Sq.

34163CH: Klipwrap Wiring Terminals • Shoulder: .045" Three-prong with square tail for wire wrapping

Height Above

.062" Board

.200

.065

.200

Overall length: .83"
 Post size: .025"Sq.

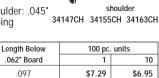
Product

Number

T421

T44

T49



8.45

11.89

Plated through



• 1.6mr

JAMECO"

doing

<b>Value</b> Pro	Blank Circuit Boards
Ideal for	hobbyists and students
	ototypes of circuits. Copper
	n board for either single-

Copper-Plated

plating sided or double-sided boards.

m thickness	Quantity SAV
	Single-Sided

Single-Sided									
Part No.	Product No.	Size (L" x W")	Fig.	Wt. (lbs.)	1	10	50		
169279CH	PCBS3X6	3.0 x 6.0	3	0.1	\$3.49	\$3.14	\$2.51		
169287CH	PCBS6X6	6.0 x 6.0	2	0.2	4.95	4.46	3.56		
169295CH	PCBS12X12	12.0 x 12.0	1	0.5	13.49	12.14	10.93		
		Doub	le-Side	d					
169308CH	PCBD3X6	3.0 x 6.0	3	0.1	\$5.25	\$4.73	\$4.25		
169316CH	PCBD6X6	6.0 x 6.0	2	0.2	7.95	7.16	5.72		
169324CH	PCBD12X12	12.0 x 12.0	1	0.7	17.95	16.16	(12.92		

#### PT Series Prototyping Boards

Designed to accommodate any mixture of 0.3" to 0.6" wide IC's with any number of pins, as well as any combination of resistors, capacitors, diodes, transistors, etc.

.530

.530

Lower \$\$\$

4 power busses that connect to a power jack (recommended P/Ns 101178CH, 101186CH & 265421CH, pg 121)

			, ,					,
Part No.	Mfr. Cross Ref. No.	Size	Hole Pads	# Holes x Dia.	# Mntg Holes x Dia.	1	5	10
262511CH	PT-5X37	5"L x 3.7"W	Double-sided	1135 x .036"	4 x .140"	\$24.75	\$22.95	\$21.79
262537CH	PT-6X49	6"L x 4.9"W	Double-sided	1931 x .036"	4 x .140"	32.49	30.89	29.35





262511CH



6.97

11.19

PCB material: phenolic † All 0.042" diameter hole boards use terminals T44, T49, and T421 (see below)

# APITAL









Mini Breadboards for Surface Mount Devices

#### 6000/6100 Series for Discrete Devices

- · Universal large foil pattern areas accept a wide range of device footprints or can be modified to accept new footprints
- 0.1" pin spacing Height: 0.5"

Part No.	Product No.	Pins	Width	1	10
207423CH	6103	3	0.3"	\$1.39	\$1.19
207407CH	6008	8	0.8"	2.29	1.99
207431CH	6109	9	0.9"	2.39	2.15
207415CH	6010	10	1.0"	2.59	2.29

#### 9000 Series for ICs

- · Adapt SMD to thru-hole

• Size: 1.2	20 W X 0.05 H	the later Married Spinster,	11111111	******
207378CF	<b>1/207394CH:</b> 0.1" pin spacing	207360CH	20739	4CH
Part No.	Product No.		1	10
207360CH	9081 (For 8-pin SOIC)		\$1.35	\$1.22
207378CH	9082 (For 8-pin SOIC)		3.55	3.10
207386CH	9161 (For 14/16-pin SOIC)		1.75	1.50
207394CH	9163 (For 14/16-pin SOIC)		5.45	4.79



#### Application Specific Adapters

33000 series SURFBOARDS® convert SMD component footprints to SIP format. Compatible with conventional and solderless breadboards & sockets (.100" center pins).



		,	1 /	20758	39CH
Part No.	Product No.	Accepted Devices	Pins	1	10
207589CH	33205	SOT-23-5/SC59-5	5	\$1.75	\$1.49
207597CH	33206	SOT-23-6/SOT-23-L/SC-59-6/TSOP-6	6	1.95	1.69

#### CHIPQUIK SMD 2000 Removal System

#### Complete Solder/Desolder Rework Kit

· Removal alloy, solder paste, 3' solder, paste flux, liquid flux remover/cleaner, handi vac, 2 acid brushes, precision tweezers, six 4" x 4" cleaning wipes, 10 swabs, 6 alcohol pads, SMD removal/clean up instructions, stainless steel probe kit & 5' solder wick



Part No.	Description	1	10
208055CH	SMD 2000 removal system	. \$99.95	\$94.99

#### **CHIPQUIK** SMD Removal Kit

- · Quick and easy to use
- · Potential damage to printed circuit boards is eliminated
- · 2.5' of CHIPQUIK® material removes 1250-1500 SMD pins
- · Uses simple equipment and materials for application & clean-up

Part No.	Description	1	10
41305CH	SMD removal kit	<del>\$21.95</del> \$19.99	\$17.99

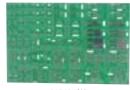




#### BELLIN DYNAMIC SYSTEMS, INC.

#### **Surface Mount Proto Boards**

Prototyping SMT circuit boards has been tedious and time-consuming because surface mount devices are so small. Now there is an easy, cost-effective and versatile Snap-Apart solution from Bellin Dynamic Systems.



215491CH

· Quality silk-screened and solder-masked boards

V-groove scoring between elements for smooth straight edges

Compatible w/ .100" single or dual row male headers (see pg 110) Size: 7.6"L x 5.0"W • Board thickness: 0.031"

See our website (www.Jameco.com) for additional specifications

Small SM		TIII	
Part No.	Prod. No.	Description 1	10
215491CH	B502	160 SMT pattern, SOT/SOIC/TSOP/MSOP/DPAK & more \$45.95	\$41.35
227344CH	B513	300 SMT pattern, SC90, SOT23-6, 323-6, TSOP, MSOP8, 10+ $\boldsymbol{45.95}$	41.35
SOIC			
215520CH	B505	60 SOIC SMT pattern, SOIC 8, 14, 16, 24, 32, 40 & more $\$45.95$	\$41.95

22/310CH	B210	140 SIVIT pattern, SOIC 8 to DIP .300" Width	41.35
227328CH	B511	63 SMT pattern, SOIC nrw/wd 8, 14, 16, 18. 20 to DIP .300" 45.95	41.35
227352CH	B514	72 SMT pattern, SOIC narrow 8, 14, 16, 18. 20 to DIP .300" 45.95	41.35
227361CH	B515	30 SMT pattern, SOIC 24, 28, 32 to DIP .600" width 45.95	41.35
Fine Pitch	Dual	Row NEW	
215503CH	B503	34 SMT pattern, SOIC/QSOP/TSOP/MSOP/TSSOP & more \$45.95	\$41.35
227281CH	B507	40 SMT pattern, SSOP/TSSOP 16, 20, 32, 40 & more 45.95	41.35
323889CH	B516	54 SMT pattern, 0.65mm TSSOP 14/16/20/28 to DIP 0.300/0.600 62.49	56.25

323700011	D317	10 SW1 Pattern, 0.03/0.3/0.4/11/11 13301 40 to bit 0.000 02.47	30.23
Quad		NEW	
215511CH	B504	25 SMT pattern, QFP32, 44, 48, 52, 54, 64, 70, 80, 100	
		PLCC18, 20, 28, 32, 44 \$45.95	
227336CH	B512	24 SMT pattern, PLCC18, 20, 22, 28, 32, 44, 52, 68, 84 & 100 - \$49.95 41.39	33.11

2 SMT 0.65mm or 0.8mm pitch, universal QFT adaptor for QFP32/40/48/56/64 (by 8-pin increments to 256 pins)....... 59.95

323900CH R517 18 SMT nattern 0.65/0.5/0.4mm TSSOP-48 to DIP 0.600

323926CH	B214	2 SIVIT U.4mm or U.5mm pitch, universal QFT adaptor for		
		QFP32/40/48/56/64 (by 8-pin increments to 256 pins)	59.95	53.95
336479CH	B530	8 SMT, 0.65/0.80mm QFP/MLF 8 - 80 pins		
		(even # of pins/side)	43.65	41.45
336487CH	B531	8 SMT, 0.65/0.80mm QFP/MLF 4 - 76 pins		
		(odd # of pins/side)	43.65	41.45
336495CH	B532	8 SMT, 0.40/0.50mm QFP/MLF 8 - 80 pins		
		(even # of pins/side)	43.65	41.45
336508CH	B533	8 SMT, 0.40/0.50mm QFP/MLF 4 - 76 pins		

PCB Connector (0.062" thick through-hole)

(odd # of pins/side) .

323918CH B518

227272CH B506 45 SMT pattern, USB A, B/1394/RJ11, 12, 45/DB9 PCB conn. ... \$45.95 \$41.35

PitchStick	тм	227299CH	initiation of	To the last
		20 SMT pattern, 48 inline pads, metric/rare pitches		
227301CH	B509	20 SMT pattern, 48 inline pads, 50 & 25 mil pitches	\$45. <sup>95</sup> 41.39	31.00

See page 245 for Circuit Board Mounting Hardware and page 144 for Round & Hex Aluminum Spacers and Standoffs.



## ISA Printed Circuit Prototyping Boards

Printed circuit prototyping boards for virtually any application including those requiring high component densities and solder or wire wrap connections. All boards are manufactured to precise standards and specifications. All bus and circuit patterns are solder-coated for user convenience.

Edge contacts: gold





Circuit Pattern



21531CH



Power/Ground Perimeter Bus with Pad Per Hole

28206CH

Part F	Product		Size (Inches)	Termi	Terminals (pg 245)		I/O Connector	Hole	# Holes	Power/	# Mounting	Weight		Pricing	
Number N	Number	Description	WxL	T44	T49	T421	(not included)	Pads	x Dia.	Ground Bus	Holes x Dia.	(lbs.)	1	10	25
21531CH	JE417	PC/XT 8-bit	4.2 x 6.50	yes	yes	yes	D-sub 9, 15, 25 & 37	Plated through	2126 x .042"	2	8 x .120"	.12	\$19.95	\$16.99	\$14.65
28206CH F	PCB4	PC/XT/AT 16-bit	4.25 x 13.13	yes	yes	yes	D-sub 9, 15 & 25	Plated through	4890 x .042"	2	4 x .120"	.23	24.95	23.69	21.85

#### micro Engineering Rabs LAB-X1 Experimenter's Module Board

The LAB-X1 is a pre-assembled experimenter's platform. It provides an assembled testbed containing most of the circuitry commonly used with PICmicro microcontrollers (MCUs). Many different projects may be created using the LAB-X1, including calculator, voltmeter, LCD backpack, tone dialer, and RC servo controller.



- · 40-pin ZIF socket for PICmicro MCU (not included, recommend PIC16F877-20/P, P/N 176882CH pg 11
- 16 switch keypad 3 potentiometers LED bargraph racters LCD module Speaker 2 RC servo connectors
- 2 lines x 20 characters LCD module RS232 interface • Socket for RS485 interface (device not included)
- One-year warranty
- Socket for I2C & SPI serial EEPROM (device not included) Socket for Microwire serial EEPROM (device not included)
- Socket for real time clock/serial analog to digital converter (devices not included)
- EPIC in-circuit programming connector Prototyping area for additional circuit
- Wiring for microchip in-circuit debug connector
   Size: 5.5" x 5.6"

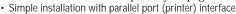
#### Requires: AC adapter (below)

Part No.	Description 1	10
169113CH	LAB-X1 Experimenter Board\$199.95	\$189.95
176903CH	LAB-X1 Experimenter Board Kit (unassembled)	132.95
198168CH	LAB-X2 for 28 and 40-pin MCUs <b>⊙</b>	65.00
198176CH	LAB-X3 for 18-pin MCUs	107.95
176882CH	PIC16F877-20/P microcontroller (pg 11)	8.49
127976CH	AC adapter (details on page 175)	4.29

Blue Part No. = Limited Quantity Available

#### micro Engineering Rabs EPIC Plus PICmicro Programmer

The EPIC Plus Programmer quickly and easily programs the PIC12Cxxx, 12CExxx, 16C505, 16C55x, 6xx, 7xx, 84, 9xx, 16CE62x, 16F62X, 7x, 8x, 87x, 14C000, 17C7xx, 18Cxxx microcontrollers from Microchip. The basic programmer includes an 18-pin socket for programming 8, 14 and 18-pin PICmicro MCUs. Devices available separately on page 10.



· Command line operation for automated,

non-interactive programming • PICmicro Assembler software included Requires: Two 9V batteries or AC adapter (below)

Part No.	Description 1	10
132679CH	EPIC Plus PICmicro programmer\$59.95	\$53.95
136397CH	8/18/20-pin ZIF adapter	31.95
132610CH	40/28-pin ZIF adapter 34.95	31.95
162317CH	AC wall adapter (16VDC/500mA, details on page 176) 7.95	6.95
67256CH	6' DB25 cable (details on page 90)	5.79

#### **Vacuum Tweezers**

Pick & place small parts of all kinds: glass slides, coins, optics, SMDs, film, etc.

Size: 2.9"L x 0.6"W
 One-year warranty

Includes:	5 pads sizes 0.14" to 0.4"; 5 straight tips		-
and 2 piec	es 45° angle tips		
Part No.	Description	1	1
88268CH	Vacuum pick & place kit	\$29.95	\$27.9

#### 4-Piece Conductive SMD Tweezer Set

· 4 types of tweezers: fine point, flat head for 4mm SMD chip device, flat head for 8mm SMD chip device, sharp angled tip • Each is 4.5" long

Part No.	Description	1	10	25
172638CH	4-piece conductive SMD tweezer set	\$11.95	\$10.95	\$9.95



#### **PLCC Surface Mount** and DIP IC Extractors

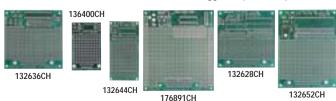
 Size: 4.0"L x 2.0"W (both) 16838CH Part No. Product No. 10 100 HT103B 16766CH PLCC IC extractor ..... \$3.55 \$3.19 16838CH HT103A DIP IC extractor ...... 1.49 1.09

#### micro Engineering Rabs

#### "PICProto" Prototyping Boards

- · High quality blank prototyping boards for PICmicro microcontrollers Holds microcontroller, 5V regulator, oscillator, capacitors and DB9-25 connector
- Double-sided board with plated-through holes · Large prototyping area
- · Solder mask on both sides makes soldering easy Silkscreen legend

Includes: Documentation sheet with schematic, suggested parts and placement



PICProto 18, 18L: For all 18-pin PICs including PIC16C52, 54, 56, 58, 554, 558, 61, 620, 621, 622, 71, 710, 711, 712, 715, 716, 84, 16CE623, 624, 625, 16F627, 628, 83, and 84

Part No.	Description	Size (L" x W")	1	10
132644CH	PICProto 18	3.0 x 1.5	\$9.95	\$8.95
176891CH	PICProto 18L	3.6 x 4.1	19.95	17.95

PICProto 3: For the 28-pin PIC16C62, 63, 642, 66, 72, 76, 773, 16F73, 76, 870, 872, 873, 876, 18C242, and 252

132636CH	PICProto 3	3.0 x 3.0	\$14.95	\$13.49

PICProto 64: For the 40-pin PIC16C64, 65, 662, 67, 74, 77, 774, 16F74, 77, 871, 874, 18C422, and 452

132652CH	PICProto 64	4.0 x 3.0	\$16.95	\$14.95

PICProto 8: For all 8-pin PIC12Cxxx and 12CExxx

136400CH PICProto 8 2.0 x 1.2 ..... \$8.95 \$7.95

PICProto Dual: For 18-pin PIC16C52, 54, 56, 58, 554, 558, 61, 620, 621, 622, 71, 710, 711, 712, 715, 716, 84, 16CE623, 624, 625, 16F627, 628, 83, & 84, as well as 28-pin PIC16C55, & 57. Accepts standard 0.6" 28-pin device or 0.3" skinny DIP

3.0 x 3.0 **SALE**. 132628CH PICProto Dual 18/28

#### micro Engineering Rabs

#### PICBasic and PICBasic Pro Compiler

PICBasic converts your BASIC programs into files that can be programmed directly into a PICmicro MCU.

- Compatible with most PICmicro MCU programmers including EPIC plus
- Use in DOS or Windows (includes Windows editor/DE software)
- I2C instructions to access external serial EEPROMs
- · In-line assembler and call support

#### 132661CH: PICBasic Compiler

- Expanded BASIC Stamp i compatible instruction set
- PEEK and POKE instructions to access any register from BASIC
- Serial speeds to 9600 baud
- Supports PC12C67x, PIC14Cxxx, PIC16C55x, 66x, 7xx, 84, 92x, and PIC16CF8xx microcontrollers
- May use up to 2k of code space



132661CH

#### 150543CH: PICBasic Pro Compiler

- · Direct and library routine access to any pin or register
- Automation page boundary handling past 2k Bit, byte, word arrays
- · Hierarchical expression handling Real If...Then...Else...Endif
- Interrupts in BASIC and assembler · BASIC Stamp I and II library
- Built-in LCD support MPLAB/MPASM/ICE compatibility
- Supports 12C5xx, 12C67x, 12CE67x, 14C000, 16C5x, 16C55x, 6xx, 7xx, 84, 92x, 16CE62x, 16F62x, 7x, 8x, 87x, 17Cxxx, and 18Cxxx microcontrollers

Part No.	Description 1	10
132661CH	PICBasic compiler\$99.95	\$89.95
150543CH	PICBasic Pro compiler	224.95



For Our Complete Selection of PIC Microcontrollers

See pages 10 – 12



#### XELTEK 40-Pin Low-Cost Universal Programmer

- · Supports 2500+ devices, including most E(E)PROM, Series E(E)PROM & FLASH
- · Programs GALs, PEELs, PALCE, Microcontrollers PIC16Cxx/17Cxx, COP87xx, and PSD3XX
- Tests TTL/CMOS Test, Memory Test, Vector Test, Test Pattern Edit, Auto Identify TTL/CMOS Device
- Features a universal ZIF socket that accepts up to 40 pins
- · High-speed programming, cost-effective hardware and flexible software
- · Load and save file in binary, Intel (extended) Hex, Motorola S or Tektronics (extended) Hex format. Multiple load, format conversion, relocation etc.
- · HEX-ASCII Edit, Fuse Map Edit, Checksum, Swap, Vector Table edit
- Supports Windows® 95/98/ME
- · Printer Port Interface
- Size: 7.8"L x 5.5"W x 0.8"H
- · Weight: 4.0 lbs.

XELTEK

Device

28C64B

24C256

W78F58

Type

Includes: Power adapter, parallel cable, user's guide and CD-ROM software

Part No.	Description	1	!
231183CH	SuperPro-Z universal programmer	\$244.95	\$232.69

#### 48-Pin Advanced, Low-Cost Universal Programmer

- · Provides a 48-pin ZIF socket that accepts any number of pins
- · Programmable I/O level supports low voltage devices down to 1.8V
- · Device insertion and pin contact check protect chips from damaging
- Supports 5000+ devices including E/EPROM, FLASH, Microcontrollers, PLD & tests standard logic devices & SRAM
- High-speed embedded CPU generates more accurate & reliable algorithm timing
- Supports Windows® 95/98/2000/NT/ME/XP
- Connect to PC via printer port
- Size: 7.8"L x 5.5"W x 1.0"H Wt.: 4.0 lbs.

Includes: Power adapter, parallel cable, user's quide & CD-ROM software

asor s garac	a ob itom software	1 10 120300	 0.0	1310
Part No.	Description		1	
231191CH	SuperPro-280 advanced universal	programmer	\$ 444.95	\$422.

Speed Comparison

Verify

(seconds) (seconds) 8 hour day

0.8

8

3

Program

13

#### XELTEK Ultra-Fast 48-Pin USB & Stand-Alone **Universal Programmer** or Adapter

· Fastest low-cost programmer in the market; programs highdensity FLASH memory at near theoretical minimum programming time: (Intel 28F320W18 - 1.8 volts 32Mbit at 18 sec.; 13 sec. for programming & 5 sec. for verifying)

 Standard universal 48 pin-drivers support devices down to 1.5 volts; optional 100-pin expander module

· Currently 4,000 devices supported from 100+ manufacturers including memory, MCU, and PLD; 11,000+ by 1/1/2004

• Supports: EPROM, Paged EPROM, Parallel/Serial EEPROM, FPGA Configuration Serial PROM, FLASH Memory (NOR and NAND), BPROM, NOVRAM, SPLD, CPLD, EPLD, Firmware HUB, Microcontroller, MCU, Standard Logic

Reliable programming of low voltage devices down to 1.5 volts

• Three modes of operation are supported: standard PC hosted operation via USB, stand-alone operation for manufacturing or service and built-in terminal mode to operate via an external instrument

Over-current/over-voltage protection for safety of the chip & programmer hardware
 Microsoft® Windows® 98/ME/NT/2000/XP compatible

• Size: 9.4"L x 5.9"W x 2.0"H • Weight: 5.0 lbs.

Includes: 12VDC@2.5A AC adapter, Program CD, USB Cable, user's guide

Part No.	Description	1	5
231221CH	SuperPro-3000 USB universal programmer \$989.9	<b>)</b> 5	\$940.45

#### **XELTEK SMD Adapters for SuperPro 280/680/3000**









231247	CH CH	231255CH	231263CH	23127	1CH
Part No.	Product No.	Description		1	5
231247CH	A800A	28-pin PLCC	adapter	\$84.95	\$80.75
231255CH	A015A	32-pin PLCC	adapter	94.95	90.25
231263CH	A244A	44-pin PLCC	adapter	109.95	104.45
231271CH	A247A	48-pin TSOP	adapter	174.95	166.25

#### Fast, Low-Cost Universal Device Programmer

#### Parallel Port Interface

- 2000+ device types supported
- Menu driven software
- Programs (E)EPROM, PROM, Serial PROM, PALCE, GAL, flash memory, microcontrollers, ATF
- On-board FPGA for speed; 4X faster than offshore brands Auto search device select function supports (E)EPROM
- and microcontrollers Device insertion test identifies improperly
- inserted device before programming
- Auto programming for production programming
- Read, blank check, program, verify, checksum, data compare, security, auto function

Includes: Parallel cable, wall adapter, diskette & manual

System Requirements: IBM PC, XT, AT, 386, 486, Pentium® or compatibles, DOS 2.11 or greater, Windows® 95/98/2000/NT/XP; hard disk, 512k RAM & parallel port

Part No.	Description	Socket	1	5
207731CH	CHIPMAX	40-pin ZIF	\$349.95	\$332.95

## High-Speed Universal Device Programmer/Tester

#### Parallel Port Interface

or Adapters

see Below

Pieces in

7578

2215

1600

7570

- · Programs Flash memory, PROM, EPROM/EEPROM, Serial (E) EPROM, Bipolar PROM, PAL, PALCE, GAL, NVRAM, PEEL, EPLD, SPLD, CPLD, PIC & Microcontrollers
- 5000+ device types supported
- Hardware diagnostic program examines all 48-pin drivers
- On-board FPGA for speed; 4X faster than offshore brands
- Tests TTL, CMOS, DRAM and Static RAM ICs
- Detects pin locations for poor or damaged contacts
- Current limiting protects hardware circuits from
- improperly inserted or defective chips
- Supports POF and JEDEC formats
- High-speed device function tests and user creatable test library
- Read, blank check, program, verify, checksum, data compare, security, auto (erase, blank check, program, verify), and option bit program function
- Built-in editor for both buffer date and test vectors CE/CUL/CSA quality certified

Includes: Parallel cable, installation diskette, power cord and manual System Requirements: IBM PC, XT, AT, 386, 486, Pentium®, hard drive, 512k

RAM, Windows® 95/98/2000/NT, and parallel port

raitivo.	Description	JUCKEL		<u>J</u>
207765CH	TOPMAX	48-pin universal ZIF	\$875.95	\$832.95

## Versatile, Production Quality Universal Programmers

#### Parallel Port Interface

- 3000+ device types supported
- Supports EPROM, flash, microcontroller, Serial (E)EPROM, EPLD, PALCE, GAL, PEEL
- Auto search device select function
- Fast programming speed with IC vendor approved algorithms
- Built-in editor for both buffer date and test vectors
- Supports JEDEC, Intel Hex, Motorola S Records, Binary and ASCII file formats with File LOAD/SAVE command
- · Built-in macro commands for programming

Includes: 01/02/03 personality modules, parallel cable, wall adapter, disk & manual System requirements: IBM PC, XT, AT, 386, 486, Pentium®, hard disk, 512k RAM, standard parallel port, MS-DOS 2.11 or higher

Part No.	Description	Sockets	1	5
207773CH		48-pin ZIF		\$349.95
207781CH	MEGAMAX4G prog.	48-pin ZIF (1)/32-pin ZIF (3) \$429.5	<sup>95</sup> 399.95	379.95

## **Free Technical Support**

Our knowledgeable Tech Support department is ready to answer your questions. Just call us!



207781CH





GALEP-4

#### 16kB-256MB Universal IC Programmer/Tester

#### Parallel Port Interface

Supports over 7,000 devices including EPROM, EEPROM, Serial PROM, FLASH, PLD/ CPLD/ FPGA, MPU/MCU & much more. Most devices in various package types can be programmed with the on-board 40-pin ZIF socket or through an appropriate adapter/ converter. Modular pin drivers program at high speed & provide high reliability & expansion capability.



66042CH

15712CH

· Functions of load file, read master, program, verify, auto, ID check, checksum, blank check, erase, secure, protect/unprotect, edit, file transfer, function configuration & self test

Includes: External power supply, DB25 M/F cable, manual & software CD-ROM System Requirements: Intel Pentium, 32MB of RAM, parallel port, Windows® 95/98/NT/2000/XP, 5MB free hard disk space, CD-ROM drive

Part No.	Description	1	5
216039CH	ALL-11C2 programmer	\$879.95	\$799.95

#### HI-LO SYSTEMS

#### **EPROM Eraser**

- · Erases all UV erasable EPROMs (32-pin)
- · Upper & lower erasing chambers hold a total of 16 EPROMs
- One-year warrantyConductive foam liner eliminates static build-up
- Size: 8.5"L x 2.8"W x 2.8"H
- · Weight: 1.6 lbs.

Includes: AC adapter - 9VDC @ 600mA and a timer which turns eraser off at the end of the selected time period – 10 to 60 minutes

Part No.	Description 1	5
121267CH	EPROM eraser	\$143.95

#### WI IVP

#### **EPROM Erasers and Accessories**

66042CH: Erases 1 chip in 7 minutes

- · Conductive foam liner eliminates static build-up
- UV intensity: 6.5mW/cm<sup>2</sup> One-vear warranty · Weight: 0.8 lbs.
- Size: 6.8"L x 1.5"W x 2.3"H

Requires: Four AA batteries (not included), recommend P/N 244515CH (pg 184)

**15712CH:** Erases 1 chip in 15 min. or 8 chips in 21 min.

- · Conductive foam liner eliminates static build-up
- Maintains constant exposure distance of 1"
- · Built-in safety lock to prevent UV exposure
- Complete with holding tray for 8 chips
- UV intensity: 6.8mW/cm²
- Size: 9.0"L x 3.7"W x 2.6"H Weight: 2.3 lbs.

Part No.	Description 1	5
66042CH	Portable eraser\$54.95	\$49.95
15712CH	8-chip eraser	109.95
34382CH	Lamp for 15712CH	29.95
13864CH	Foam (12" x 24" x 0.25")	8.35

#### Flash Writer/Programmer w/ USB Interface

- · Programs 8-bit FLASH serial ICs via USB cable on Windows® 9x/2000/XP
- · High speed: Only 22 seconds to blank check, program, and verify MXIC MX29F040
- · File formats supported: binary and machine code, Intel HEX, Motorola HEX, Tektronix
- · Type, read, load, edit, checksum, erase, blank check, program, verify, protect functions
  • Supports Flash EPROM, EPROM & EEPROM

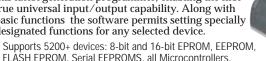
Includes: USB cable, 12V @ 500mA adapter, CD-ROM software and manual

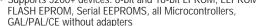
Part No.	Description	1	5
225947CH	Leaper 3D	\$199.95	\$179.95

#### **Universal Programmer – Pocket Size & Battery Powered**

#### Parallel Port Interface

A unique ASIC pin driver was designed specifically for this latest generation programmer, enabling the first true universal input/output capability. Along with basic functions the software permits setting specially designated functions for any selected device.





- Support for ultra-low voltage devices down to 1.3V
- High speed data transfer: 27C256 read/verify = 2 seconds; program = 8 seconds
- Three separately adjustable voltages for all 40-pins
- Fully compatible with Windows® 95/98/ME/NT/2000/XP
- · Integrated editor's many features allow user to edit device data, which can be loaded or saved in INTEL HEX, Motorola S or binary format
- Operates on AC power adapter or 6 NiMH batteries
- Size: 4.5"L x 3.1"W x 1.3"H
   Weight: 0.5 lbs.

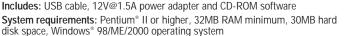
Includes: Printer port data cable, power adapter & CD

System requirements: PC with Pentium® CPU

Part No.	Description	1	5
226309CH	GALEP-4	\$369.95	\$351.49

#### Universal EPROM/Flash Programmer w/ USB Interface

- Supports low voltage components up to 2.5V; user selectable verify Vcc with one or two-pass verify voltage
- · High speed: 30 sec. to process 16Mbits memory
- Auto detect device pin insertion and contact check
- Select device brand & number by prompt and convenient cross search, FLASH memory auto detection
- Supports EPROMs, EEPROMs, FLASH EPROMs Serial E/EPROMs, NV RAMs, Microcontrollers, · Supports file formats JEDEC DSPs and PLDs binary, Intel 80/86 HEX, Motorola HEX, Tektronic HEX

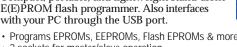


Part No. Description

#### 225939CH \$575.95 Leaper 48 \$529.95

#### 512k E(E)PROM/Flash Programmer w/ USB Interface

Compact, portable, and lightweight stand-alone E(E)PROM flash programmer. Also interfaces with your PC through the USB port.



- · 2 sockets for master/slave operation
- · Stand-alone mode uses two 9V batteries
- · IC parameters are adjustable such as programming algorithm, Vpp voltage, and pulse width
- Supports file formats binary and machine code, INTEL HEX, Motorola HEX
- Supports Windows® 95/98/NT/2000/ME/XP • Size: 6.3"L x 4.3"W x 1.8"H

Includes: USB cable, 12VDC@500mA power adapter and CD-ROM

i dit ito.	Beschiption		
220636CH	Leaper-3C	\$275.95	\$249.95

## Order Anytime, Day or Night

Our friendly sales department will take your order 24x7x365 by phone, fax, web or email.



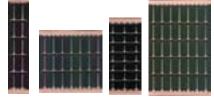


#### PowerFilm.

#### Flexible Thin Film Solar Modules

#### Wireless Electronics Series

The Wireless Electronics Series offers a new opportunity to solve the old problem of limited power for wireless electronics in portable and remote applications. These modules are lightweight, paper thin, and durable. With their ultra-film profile, they are easily integrated with devices for solar recharging or direct powering. Specifically developed to recharge AA, AAA, plus 6 and 12 volt batteries.

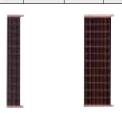


228064CH 227993CH 228013CH 228030CH

		Operating	Operating	Size (L x W x T)			Pricing	
Part No.	Product No.	Voltage (V)	Current (mA)	Inches	mm	1	10	100
227985CH	SP3-37	3.0	22	2.5 x 1.5 x .01	64 x 37 x 0.2	\$3.89	\$3.49	\$3.19
227993CH	TX 3-25	3.0	25	4.5 x 1.0 x .01	114 x 25 x 0.2	2.89	2.45	1.99
171061CH	MP3-37	3.0	50	4.5 x 1.5 x .01	114 x 37 x 0.2	5.89	5.29	4.99
228013CH	MPT3.6-75	3.6	50	2.9 x 3.0 x .01	74 x 75 x 0.2	8.89	7.99	7.19
228030CH	SP4.2-37	4.2	22	3.3 x 1.5 x .01	84 x 37 x 0.2	5.89	5.29	4.79
228048CH	MPT4.8-75	4.8	50	3.7 x 3.0 x .01	97 x 75 x 0.2	11.89	10.69	9.59
228056CH	MPT4.8-150	4.8	100	3.7 x 5.9 x .01	94 x 150 x 0.2	22.89	20.59	18.49
228064CH	MPT6-75	6.0	50	4.5 x 3.0 x .01	114 x 75 x 0.2	13.89	12.49	11.29
228072CH	MPT6-150	6.0	100	4.5 x 5.9 x .01	114 x 150 x 0.2	27.89	24.99	22.49
228099CH	MP7.2-150	7.2	200	10.0 x 5.9 x .02	253 x 150 x 0.6	39.89	37.99	34.99
228101CH	MPT15-75	15.4	50	10.0 x 3.0 x .02	253 x 75 x 0.6	26.89	24.29	21.99
228110CH	MPT15-150	15.4	100	10.0 x 5.9 x .02	253 x 150 x 0.6	44.89	42.99	39.99

#### Remote Control Aircraft Series

Designed to be easily integrated with remote control aircraft or anywhere weight is critical. These modules are very lightweight. Soldered can be applied from the back of the module via the extended copper tape, and have an extra edge seal for protection. We offer versions with and without a strong pressure-sensitive adhesive for simple bonding.



228144CH/228152CH 228136CH

		Operating	Operating	Size (L x W x T)			Pricing	
Part No.	Product No.	Voltage (V)	Current (mA)	Inches	mm	1	10	100
228136CH	RC7.2-37PSA*	7.2	50	10.6 x 2.2 x .01	270 x 55 x 0.2	\$19.39	\$17.49	\$15.79
228144CH	RC7.2-75	7.2	100	10.6 x 3.5 x .01	270 x 90 x 0.2	29.89	26.99	24.29
228152CH	RC7.2-75PSA*	7.2	100	10.6 x 3.5 x .01	270 x 90 x 0.2	32.89	29.79	26.79

<sup>\*</sup>PSA = Pressure Sensitive Adhesive

#### WeatherPro Series

The right choice for permanent outdoor applications that are directly exposed to the elements. These modules feature rugged construction, a UV-stabilized surface, extra edge seal for weather protection, and tin-coated copper leads that extend from the module.







228161CH/228187CH

228179CH/228195CH

228208CH

		Operating	Operating	Size (L x W x T)			Pricing	
Part No.	Product No.	Voltage (V)	Current (mA)	Inches	mm	1	10	100
228161CH	P7.2-75	7.2	100	10.3 x 3.9 x .04	270 x 100 x 1.1	\$39.89	\$36.99	\$33.99
228179CH	P7.2-150	7.2	200	10.3 x 6.9 x .04	270 x 175 x 1.1	59.89	54.99	49.99
228187CH	PT15-75	15.4	50	10.3 x 3.9 x .04	270 x 100 x 1.1	39.89	36.99	33.99
228195CH	PT15-150	15.4	100	10.3 x 6.9 x .04	270 x 175 x 1.1	59.89	56.99	52.99
228208CH	PT15-300	15.4	200	10.3 x 12.8 x .04	270 x 325 x 1.1	99.89	94.99	89.99

#### Solar Energy Project Kit

Learn about the renewable energy available with solar power. Experimenter kit demonstrates the

power of the solar cell to run an electric motor. Contains motor connected to solar cell, propeller, optical illusion spirals, and informative booklet.

· Difficulty level: beginner

Part No. 215204CH



#### **Forever Keychain Light**

Miniature rechargeable light lasts for years and you'll never need to change a battery or bulb. Energized by solar cells, it is entirely self-contained. A squeeze turns on the LED emitting yellow light. Perfect for keychain or gift.

· Size: 2"Dia. x 0.5"Thick



#### Solar Cell Grab Bag Assortment

About 40 irregular pieces in various sizes, shapes, and current ratings at 0.5VDC. Connect in series to increase voltage or connect in parallel to increase current.



Part No. Description		1	10
215255CH	Solar cell assortmento	\$9.89\$7.65	\$6.95

#### Miniature Glass Solar Panel



- · Open circuit voltage: 16.5VDC in full sunlight
- Operating temperature range: -5° to +40°C
- Operating volt.: 12VDC @ 3mA Size: 3.6"L x 1.0"W

Part No.	Description	1	10
171985CH	Glass solar panel	\$7.89	\$7.19

**❸** Blue Part No. = Limited Quantity Available

## Solar Photon Racer Kit

Build your own solar racer and tap into the power of the sun! This easy-toassemble kit comes with everything you need, including a



high-powered 1Va 500mA, ultra lightweight encapsulated solar cell and high-amp/low-voltage motor for maximum torque and speedy acceleration. Sleek transparent plastic body, made from recycled pop bottles, looks great as is, or add your own custom paint job. The Photon can travel 10 feet in three seconds on a smooth, flat surface, when exposed to full sun.

• Difficulty level: beginner • Size: 8.5"L x 3.8"W x 2.0"H

Part No.	Description	1	10
214738CH	Photon-P (painted) ◆\$		
215183CH	Photon-1 (unpainted) ∴ \$19.15	16.45	14.95

Lower \$\$\$

Blue Part No. = Limited Quantity Available

#### Solar Motor

- · Runs at 80mA no load
- · Low stall torque: 25-48 g-cm
- · Shaft diameter: 2mm
- Operates on 0.5-3.0V @ 200mA start-up
- · High RPM: 2500-5000 @ maximum efficiency
- Motor size: 1.0"Dia. x 1.5"L

Part No.	Description	1	10
215263CH	Solar motor <b>⊙</b>	\$2.8 <sup>9</sup> \$2.25	\$2.05

Blue Part No. = Limited Quantity Available

#### Mini-Panel Solar Cells Ready to Use! No Soldering

Encapsulated mini-panels utilize solar cells similar to those that power our satel-



• Size: 3.8"L x 2.5"W • Connection: lead

be connected to create different outputs.

Part No.	Prod. No.	VDC @ mA	Size (LxW)	1	10
200205CH	SOL2	0.5 @ 800	2.6" x 3.7"	\$7.95	\$7.15
200221CH	SOL4	2.0 @ 200	3.0" x 3.7"	8.99	7.99
215319CH	4-3.0-100	3.0 @ 100	3.8" x 2.5"	14.29	12.89
215327CH	4-6.0-50	6.0 @ 50	3.8" x 2.5"	15.79	14.39





# **Eye-Catching Solar Powered Retail Display Device**



Add eye-catching motion to your in-store advertising with this solar clip-on motion display. Just clip on to an existing fluorescent light blub, add your own signage, turn the lights on and your in-store advertising sign comes to life. Long-life solar motor turns your sign counter clockwise. No batteries or AC power to worry about. No need to worry about tripping your motion sensing alarm systems because you can simply switch off your fluorescent light and the movement stops.

Part No.	Description	<sub>649-69</sub> 1	10
215221CH	Clip-on motion retail disp		\$15.35

# Portable Solar Battery Charger

Charge your batteries with free solar power. Inexpensive, easy and safe to use—completely self-contained unit, no moving parts or cords. Uses satellite type solar cells that produce the highest power to weight ratio. Compact and lightweight, you can carry this charger with you anywhere.

Re-energizes carbon-zinc, alkaline, nickel-cadmium (NiCd), and nickel-metal-hydride (NiMH) batteries.

**Includes:** Battery adapter to charge, AA, C, and D type batteries.

Part No.	Description	Size	SALE	1	10
215239CH	Solar pocket charger	3.6"L x 3.1"W x 1.5"D		\$ <del>26.35</del> \$22.79	\$20.69

# Solar Button Cell Battery Charger

A convenient and safe way to revitalize worn down button cell batteries used in hearing aids, cameras, calculators, remote controls, clocks, alarms and more. LED indicator lets you know when the battery is being charged. Charges nickel-cadmium (NiCd), nickel-metal-hydride (NiMH), alkaline, mercury, and most zinc air (1.2V-1.5V) batteries.



Part No.	Description	Size	SALE	1	10
215247CH	Solar button cell charger	2.3"L x 1.4"W .		\$43.49 \$11.65	\$10.59

# **Motor and Gear Case**

Combination motor and gear train in plastic case. · Runs at 20mA

- Operates on 0.5-3.0V @ 0.5V
- Strong torque @ 3V: 41 g-cm · Shaft diameter: 2mm

art No.	Description	Size
15271CH	Motor and gear case	3.0"L x 2.0"W x 1.5"D



Laser Diode and Driver

Input voltage: 2.6-6VDC
 Input current: 40mA

Laser driver ...... 7.95

650nm laser diode ... \$11.95 \$10.79

Laser Pointer Pens

\$14.2<sup>5</sup> \$12.45 \$11.29

182932CH

161736CH

10

Illa Laser Products

# Lasers

# 650nm Line and Dot Laser Diodes

Class Illa Laser Product

173243CH

Laser

Diode

#### 143845CH/173243CH:

- · Focus adjustable w/ locking set screw
- Wattage: 5mW
- Operating voltage: 3-5V
- Size: 3.3"L x 0.9"Dia.
- One-year warranty

#### 143845CH: Line laser module

 Laser line width: 1mm
 Laser fan angle: 60° 173243CH: Cross hair laser diode module

#### Laser fan angle: 60°

- Size: 3.0"L x 0.9"D
- · Female 2.1mm power connector

### 143837CH: Module regulated power supply

- Output: 5VDC @ 100mA
- Short circuit protection
- Input voltage: 95-125VAC or 190-250VAC switchable
- Size: 2.0"W x 1.7"D x 9.2"H
- · Weight: 0.6 lbs.

#### 143853CH: Laser module mount

- · Built to hold laser diode on target
- X-Y tilt, θ movement
- · Tightening screw for tilt adjustment

Part No.	Description 1	10
143845CH	Line laser diode module \$114.95	\$103.95
173243CH	Cross hair laser diode mod 89.95	80.95
143837CH	Regulated power supply 19.95	17.95
143853CH	Laser diode module mount 49.95	39.95

143853CH

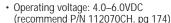
# **Laser Diode Module**

- Operates on 3VDC @ <5mW</li> 650nm wavelength
- Beam diameter: 5 x 8mm
- · Working distance: over 50 meters/yards (daylight), 200 meters/yards (dark)
- Size: 0.9"L x 0.3"Dia.
- One-year warranty

,	,	_
Part No.	Description	Price
310519CH	Laser module, brass	\$44.95

# **Glass-Lens Red Laser Diode** and Line Generator

This lens design uses 3-element glass to collect almost all the power from the laser diode resulting in a brighter spot than many typical laser applications.



Beam size at 7m: oval – 5mm x 8mm

Maximum output: 4mW

133292CH: Laser Diode

Wavelength: 660nm

21

- Beam divergence: 0.2mrad
- Green LED indicator
   Module size: 2.0"L x 0.5"W

#### 134148CH: 60° Line Generating Lens

- Adjustable focus range: 50 cm to ∞
- · Back focal length: 1.5mm
- Focal length: 8.0mm
- Fan angle: 60°
- · Beam divergence: 2.0mrad
- Lens construction: 3E.3G (glass)

zongmat i motor diotanoor iii iii				
Part No.	Description 1	10	2	
133292CH	Glass laser diode \$44.95	\$39.95	\$35.9	
134148CH	60° lens 12.95	11.49	9.9	





133292CH

ngtn a	t i meter distance:	1./ m		
lo.	Description	1	10	25
92CH	Glass laser diode	. \$44.95	\$39.95	\$35.95
40011	(O) I	12.05	11 10	0.00

-	
1341	48CH

СН		

In

Part No.

161736CH

6 RPM

182932CH: Laser Diode

5.6mm packaging size

Operating current: 30mA

Operating voltage: 2.6V maximum

· Lasting wavelength: 650nm typical

· Beam divergence of 11 degrees

Description

161736CH: Laser driver w/ regulator

from center line maximum

· Optical output power:

≤5mW maximum



 Range up to 500 yards 670nm red laser

ituiige up	to 500 yaras	07011111
cludes: 2	AAA batteries	Class

Part No.	Description	Size (L" x Dia")	1	10
153605CH	Black pen	5.2 x 0.4 \$	19.95	\$17.95
127749CH	Silver brass	5.4 x 0.4	21.95	19.95



# Green Laser Pointer

Even the sleepiest audience will sit up and salute when you whip out a laser pointer that's green, not red... and so bright, you could be standing nearly half a mile away. Using a wavelength closely matched to the highest sensitivity of the human eye and built with cutting-edge crystal technology, this laser projects a green beam so powerful you can see it against a clear sky at night. You won't believe how bright it is. • 90-day mfg. warranty

> Ultra-intense green beam is much brighter goes much farther and is easier on the eyes than standard red lasers.

Includes: Metal gift box, clip and 2 AAA batteries

Description **Output Wavelength Output Power** 223731CH Green laser pointer <5mW



\$152.25

Color Code Legend New Sale Lower\$ QtySave Color Code Legend

lew Sale Lower\$ QtySave

• 4 serial ports

**JAMECO**°

# Power House Kit

Sound Generator Kit



Train Sound Generator Kit

Karaoke Kit

Multifunction Clock Kit

Voice Activated LED Kit

3D Flashing Christmas Tree Kit

Fig. 10

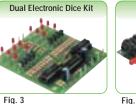




Fig. 4

Fig. 12









Fig. 16

Flashing Pumpkin Kit

# **Microprocessor Starter Kit**



Tools offers an educational community devoted to bringing as much value to a kit purchase as possible by offering free downloadable products, application ideas, and support. The microprocessor starter kit is ideal for hobbyists, enthusiasts, and entrepreneurs seeking to create a killer product

critical distriction of the critical of the cr	o create a miler product
and/or application. Kit includes RCM36	310 module with Rabbit 300A
microprocessor, starter board, software	CD, hardware, and power supply.
• 256k FLASH/128k SRAM	• 33 digital I/O ports

art No.	Description	Input Voltage	Current Draw	Price
54992CH	Microprocessor starter kit	24-40VAC, 7-40VDC	43mA typ.@12V, 16mA typ.@40V	\$94.05

				No. of	Ехр.	Dimensions Wt.		Pricing	
Part No.	Mfr. No.	Description	Fig.	Pieces	Level	(L"xW"xH")	(lbs.)	1	10
Educational Kits									
307707CH	652111	Detector radio kit	_	29	BEG	10.9 x 6.9 x 1.6	1.0	\$22.95	\$19.99
307723CH	628710	Fuel cell car and experiment kit	_	39	INT	8.5 x 4.4 x 6.5	5.0	139.95	125.95
307731CH	626112	Power house kit	1	59	INT	15.6 x 9.9 x 9	6.0	139.95	125.95
285624CH	SR-TGI	Telegraph kit	2	_	_	2.7 x 2.7 x 4	_	49.95	47.49
		151 1 1 51 111							

Timer Modules and Electronic Dice Kit										
1	147871CH	I-1	1 sec. to 3 min. timer module	_	_	_	3.0 x 1.7 x 1.2	_	\$19.95	\$17.95
l	147846CH	I-10	3 sec. to 1 min. off cyclic timer module	_	_	_	3.0 x 1.7 x 1.2	_	22.49	20.29
2	200352CH	K3400	Dual electronic dice kit	3	85	INT	3.0 x 2.8	0.5	18.95	16.95

Audio Ti	Audio Transmitters, Amplifier, Sound Generator and Detection Kits										
151204CH	AA-1	Super snooper big ear audio amplifier kit	4	17	INT	1.8 x 1.0 x 0.6	_	\$10.95	\$9.95		
151239CH	FMST-100	FM stereo transmitter mini kit	5	37	INT	2.7 x 2.0	—	29.95	26.95		
117604CH	K1771	FM transmitter Kit	6	26	INT	1.8 x 2.8	_	10.19	9.99		
211772CH	MK118	FM radio Kit	_	65	INT	4.8 x 3.3	_	21.95	19.95		
125161CH	6063KT	One chip AM radio kit	7	39	INT	4.0 x 1.3 x 0.5	_	13.95	12.95		
147643CH	K4304	10 LED mono VU meter kit	_	36	INT	2.7 x 1.4	0.3	16.99	15.99		
117612CH	K1803	Universal mono pre-amplifier kit	_	17	INT	1.2 x 1.8	_	8.95	7.95		
125111CH	6027KT	1-watt amplifier kit	_	9	INT	1.2 x 1.2 x 0.9	_	6.29	5.59		
127255CH	K4001	7-watt amplifier kit	_	22	INT	2.2 x 1.4	_	13.95	12.49		
136207CH	8405KT	18-watt bridged mono amplifier kit	_	17	BEG	2.2 x 1.1	_	15.59	13.95		
147838CH	E-11	20-watt RMS amplifier module	—	_	_	2.8 x 2.8 x 1.6	—	24.95	22.49		
129138CH	K4003	30-watt stereo power amplifier	8	38	INT	2.8 x 2.0	_	29.95	26.95		
127562CH	K4401	Sound generator kit	9	61	INT	2.8 x 2.8	_	29.95	26.95		
125137CH	DK31	Siren kit	_	20	BEG	2.0 x 0.8 x 0.5	_	7.95	7.15		
125170CH	6101KT	Train sound generator kit	10	11	BEG	1.1 x 0.6 x 0.2	_	9.49	8.59		
215394CH	MK140	Karaoke kit	11	59	INT	3.9 x 3.3 x 1.0	_	15.95	14.35		
313912CH	B110	Stereo tone control kit	_	_	_	4.2 x 1.5	_	19.95	18.95		
313921CH	B009	Antenna amplifier kit	_	_	_	2.2 x 2.2	_	12.95	12.30		

-	12.95	12.30								
Clock Kits  319281CH   K8009   Multifunction clock kit   12   -   9.9 x 3.1   -   \$99.95   \$94.50										
	\$99.95	\$94.50								
.0 —	24.95	23.70								
Optical Communications										
0.1	\$24.95	\$22.49								
0.7	46.89	42.29								
		.0 — \$99.95 .0 — 24.95								

Speech Recording and Recognition Kits									
124871CH	DVM-58Do	Digital voice module	_	_	_	5.8 x 2.9 x 0.6	_	\$65.95	\$59.95
147571CH	MK103	Voice activated LED kit	14	33	INT	2.5 x 1.6 x 1.4	0.1	9.95	8.95
225971CH	66-0101 <b>♀</b>	Voice direct II stand-alone speech recognition kit	_	_	_	_	0.4	59.95	53.95

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oliday	Kits

211781CH	MK130	3D flashing Christmas tree kit	15	36	INT	3.1 x 3.5 x 4.0	_	\$10.95	\$9.95
211764CH	MK116	Santa sleigh and reindeer kit	_	201	EXP	5.7 x 3.2	_	22.95	20.65
236072CH	MK117	Deluxe Christmas tree kit	_	208	INT	3.2 x 5.6	_	19.99	17.99
147635CH	MK100	Flashing Christmas tree kit	_	30	BEG	4.0 x 2.4	_	6.29	5.97
236081CH	MK145	Flashing pumpkin kit	16	71	INT	1.3 x 4.0 x 3.2	_	9.99	8.99



# **Ethernet Starter Kit**



microprocessors. Fun and useful application projects take you step-by-step through hard-ware and software development. Hardware includes a RCM3700 Rabbit Microprocessor Core Module plus prototyping and breadboards (6.5"L x 2.2"W), 12VDC@1A power supply,

serial cable, 2 Ethernet cables,  $8\Omega$  400mW speaker, wiring kit,  $10k\Omega$  thermistor, 0.1mF capacitor,  $10k\Omega$  potentiometer, headers, and standoffs. Software includes Dynamic C lite, libraries and samples, as well as royalty free TCP/IP protocol stack. Mix and match project hardware and software to create a new application such as a WAV file player, DC and stepper motor controller, GPS clock, and much more.

Part No.	Description	Input Voltage	Current Draw	Price
355004CH	Hovercraft kit	24-28VAC, 7-40VDC	43mA typ.@12V, 16mA typ.@40V	\$141.55

				No. of	Ехр.	Dimensions	Wt.	Pri	cing
Part No.	Mfr. No.	Description	Fig.	Pieces	Level	(L" x W" x H")	(lbs.)	1	10
Robotic	and Con	nputer Control Kits							
199603CH	769K	Rockit robot expert kit	17	96	EXP	_	1.0	\$21.95	\$19.55
157366CH	007	Robotic arm kit (unassembled)	18	109	EXP	_	4.5	74.95	67.49
159345CH	007/IBM	Robotic controller software (DOS 4.2 & up, Windo	otic controller software (DOS 4.2 & up, Windows® 95/98)				1.0	84.95	76.49
140821CH	972K	Spider kit	19	107	EXP	12 x 7 x 3.5	1.2	59.95	53.95
200328CH	MK127	Running micro bug kit	20	26	INT	4.0 x 2.4	0.2	18.95	16.95
200336CH	MK129	Crawling micro bug kit	21	29	INT	4.0 x 2.4	0.2	21.45	19.35
128928CH	K8000	Computer control interface kit	_	301	EXP	9.3 x 5.3	1.7	139.95	125.95
128910CH	K6714	Universal relay controller card kit	_	64	EXP	8.3 x 5.9	1.8	59.95	53.95
120678CH	K6501	Remote control by phone kit	_	116	EXP	4.1 x 5.1	0.7	69.49	62.59
285641CH	561-4562	Hovercraft kit	22	25	BEG	_	0.8	21.79	20.69
239476CH	K2633	Relay card kit (req. 9VDC@300mA power supply, 133891CH, pg 175)	_	29	INT	3.0 x 2.7	0.4	19.99	18.99

Power Suppry and Motor Kits										
	117621CH	K1823	1 amp power supply kit	_	12	INT	2.1 x 2.1	0.3	\$12.95	\$11.65
	20626CH	JE215	Dual adj. regulated power supply kit	_	48	INT	5.1 x 3.5 x 2.0	2.1	22.95	20.49
	120539CH	K8004	DC to pulse width modulator kit	_	40	EXP	3.3 x 1.9 x 1.8	0.5	22.95	20.49
	127829CH	DK67	DC motor speed control kit	—	35	INT	3.6 x 2.3 x 1.2	0.2	19.95	17.95
	139109CH	DK109	Unipolar stepper motor driver kit	—	29	INT	2.6 x 1.9 x 1.0	0.1	29.95	26.95
	181833CH	VM-1	DC voltage monitor kit	—	46	BEG	2.7 x 1.3	0.2	8.95	7.95
	263628CH	K8005	Stepper motor controller card and motor kit	_	102	INT	3.9 x 3.5	0.3	59.95	56.95

Battery Charger Kits										
314034CH	B079	Universal NiCd charger kit	23	_	_	2.2 x 2.2	_	\$15.95	\$15.15	
239521CH	K8012	Lead acid battery charger kit	_	_	_	3.8 x 5.5 x 1.6	_	39.95	37.95	
314211CH	M149	Solar cell battery charger	_	_	_	2.5 x 2.0 x 1.1	_	16.95	16.05	
Electronic Lock Kits										

LICCIIOI	Electronic Lock Kits										
127554CH	K6400	Code lock kit	24	67	INT	1.7 x 1.8	0.5	\$29.95	\$26.95		
Distance and Light Kits											
129120CH	K3502	Parking radar kit	25	55	INT	4.9 x 1.9	0.5	\$39.95	\$34.95		

117639CH	K5300	Stroboscope kit	_	19	EXP	3.5 x 2.6	0.5	15.49	14.9
131684CH	K8017	3-channel light organ kit	26	80	INT	6.7 x 5.6 x 1.7	1.2	54.95	49.9
157964CH	LED1007	IR red illuminator kit	_	41	BEG	2" Dia.	0.1	16.95	15.2
125090CH	DK20	Ultrasonic alarm kit	—	49	INT	2.8 x 2.0 x 0.9	0.1	29.95	26.9
134105CH	OEM-ARN2	Voltage output distance sensor module	27	_	_	2.8 x 1.8 x 0.9	0.2	159.95	143.9
151482CH	RS-232	RS-232 output distance sensor module	_	_	_	_	1.0	179.95	161.9
200310CH	MK124	Scrolling message kit	_	76	INT	3.5 x 2.6 x 1.8	0.2	24.95	22.4
147555CH	MK101	Flashing LED sweetheart kit	_	46	INT	2.5 x 2.4 x 1.2	0.1	11.95	10.9
147580CH	MK102	Flashing LED kit	_	23	INT	1.3 x 1.4 x 0.6	0.1	7.95	7.1
136223CH	DK-79C	Light sensitive relay kit	_	20	INT	2.4 x 1.3 x 1.0	0.1	12.95	11.6
285595CH	SR-LBI	Build your own lightbulb kit	_	5	BEG	5.5 x 2.7 x 6.6	0.4	54.95	52.2
285616CH	SR-LBI-R	Refurbishment pack for lightbulb kit	_	_	BEG	_	_	14.49	13.7
313875CH	B224	Laser light show kit	28	_	_	_	_	22.95	21.8
286969CH	LFB-10	Flashing LED American flag	29	_	_	1.2 x 0.7	_	3.99	3.7

Test and Measurement Kit	S
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Color Code Legend

lew <mark>Sale Lower\$ QtySave</mark>

2040ECH	IE2204	Function generator kit		21	INIT	4.1 x 1.5	0.1	\$24.95	¢22.0
20685CH		Function generator kit	-	21	INT	4.1 X 1.5	0.1	\$24.95	\$22.9
129091CH	K7102	Metal detector kit	30	22	INT	2.1 x 2.1	0.4	11.95	10.9
157315CH	MK108	Water leak alarm kit	—	7	BEG	2.8 x 1.8	0.1	10.95	9.9
313736CH	B051	Gas/spirits sensor kit	_	_	_	_	_	29.95	28.4
313832CH	B229	Clean air measuring kit	31	_	_	4.0 x 1.5	_	29.95	28.4
313841CH	B137	Ion generator kit	_	_	_	2.0 x 1.7	_	19.95	18.9
313904CH	B160	LED VU meter kit	32	_	_	3.7 x 3.7	_	24.95	23.7





Fig. 18

Fig. 20

Fig. 23

Fig. 24

Code Lock Kit





Voltage Output Distance

Running Micro Bug Kit



Crawling Micro Bug Kit







Fig. 31

LED VU Meter Kit Fig. 32

Color Code Legend

lew Sale Lower\$ QtySave

• 4 serial ports

**JAMECO**°

# Power House Kit

Sound Generator Kit



Train Sound Generator Kit

Karaoke Kit

Multifunction Clock Kit

Voice Activated LED Kit

3D Flashing Christmas Tree Kit

Fig. 10

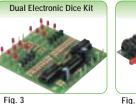




Fig. 4

Fig. 12





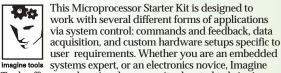




Fig. 16

Flashing Pumpkin Kit

# **Microprocessor Starter Kit**



Tools offers an educational community devoted to bringing as much value to a kit purchase as possible by offering free downloadable products, application ideas, and support. The microprocessor starter kit is ideal for hobbyists, enthusiasts, and entrepreneurs seeking to create a killer product

critical distriction of the critical of the cr	o create a miler product
and/or application. Kit includes RCM36	310 module with Rabbit 300A
microprocessor, starter board, software	CD, hardware, and power supply.
• 256k FLASH/128k SRAM	• 33 digital I/O ports

art No.	Description	Input Voltage	Current Draw	Price
54992CH	Microprocessor starter kit	24-40VAC, 7-40VDC	43mA typ.@12V, 16mA typ.@40V	\$94.05

				No. of	Ехр.	Dimensions	Wt.	Pri	cing
Part No.	Mfr. No.	Description	Fig.	Pieces	Level	(L"xW"xH")	(lbs.)	1	10
Educational Kits									
307707CH	652111	Detector radio kit	_	29	BEG	10.9 x 6.9 x 1.6	1.0	\$22.95	\$19.99
307723CH	628710	Fuel cell car and experiment kit	_	39	INT	8.5 x 4.4 x 6.5	5.0	139.95	125.95
307731CH	626112	Power house kit	1	59	INT	15.6 x 9.9 x 9	6.0	139.95	125.95
285624CH	SR-TGI	Telegraph kit	2	_	_	2.7 x 2.7 x 4	_	49.95	47.49
		151 1 1 51 111							

Timer Modules and Electronic Dice Kit										
1	147871CH	I-1	1 sec. to 3 min. timer module	_	_	_	3.0 x 1.7 x 1.2	_	\$19.95	\$17.95
l	147846CH	I-10	3 sec. to 1 min. off cyclic timer module	_	_	_	3.0 x 1.7 x 1.2	_	22.49	20.29
2	200352CH	K3400	Dual electronic dice kit	3	85	INT	3.0 x 2.8	0.5	18.95	16.95

Audio Ti	ransmitte	ers, Amplifier, Sound Generator an	d De	tection	ı Kits				
151204CH	AA-1	Super snooper big ear audio amplifier kit	4	17	INT	1.8 x 1.0 x 0.6	_	\$10.95	\$9.95
151239CH	FMST-100	FM stereo transmitter mini kit	5	37	INT	2.7 x 2.0	—	29.95	26.95
117604CH	K1771	FM transmitter Kit	6	26	INT	1.8 x 2.8	_	10.19	9.99
211772CH	MK118	FM radio Kit	_	65	INT	4.8 x 3.3	_	21.95	19.95
125161CH	6063KT	One chip AM radio kit	7	39	INT	4.0 x 1.3 x 0.5	_	13.95	12.95
147643CH	K4304	10 LED mono VU meter kit	_	36	INT	2.7 x 1.4	0.3	16.99	15.99
117612CH	K1803	Universal mono pre-amplifier kit	_	17	INT	1.2 x 1.8	_	8.95	7.95
125111CH	6027KT	1-watt amplifier kit	_	9	INT	1.2 x 1.2 x 0.9	_	6.29	5.59
127255CH	K4001	7-watt amplifier kit	_	22	INT	2.2 x 1.4	_	13.95	12.49
136207CH	8405KT	18-watt bridged mono amplifier kit	_	17	BEG	2.2 x 1.1	_	15.59	13.95
147838CH	E-11	20-watt RMS amplifier module	—	_	_	2.8 x 2.8 x 1.6	—	24.95	22.49
129138CH	K4003	30-watt stereo power amplifier	8	38	INT	2.8 x 2.0	_	29.95	26.95
127562CH	K4401	Sound generator kit	9	61	INT	2.8 x 2.8	_	29.95	26.95
125137CH	DK31	Siren kit	_	20	BEG	2.0 x 0.8 x 0.5	_	7.95	7.15
125170CH	6101KT	Train sound generator kit	10	11	BEG	1.1 x 0.6 x 0.2	_	9.49	8.59
215394CH	MK140	Karaoke kit	11	59	INT	3.9 x 3.3 x 1.0	_	15.95	14.35
313912CH	B110	Stereo tone control kit	_	_	_	4.2 x 1.5	_	19.95	18.95
313921CH	B009	Antenna amplifier kit	_	_	_	2.2 x 2.2	_	12.95	12.30

-	12.95	12.30									
Clock Kits  319281CH K8009 Multifunction clock kit 12 — 9.9 x 3.1 — \$99.95 \$94.50											
	\$99.95	\$94.50									
.0 —	24.95	23.70									
Optical Communications											
0.1	\$24.95	\$22.49									
0.7	46.89	42.29									
		.0 — \$99.95 .0 — 24.95									

Speech Recording and Recognition Kits										
	124871CH	DVM-58Do	Digital voice module	_	_	_	5.8 x 2.9 x 0.6	_	\$65.95	\$59.95
	147571CH	MK103	Voice activated LED kit	14	33	INT	2.5 x 1.6 x 1.4	0.1	9.95	8.95
	225971CH	66-0101 <b>♀</b>	Voice direct II stand-alone speech recognition kit	_	_	_	_	0.4	59.95	53.95

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oliday	Kits

211781CH	MK130	3D flashing Christmas tree kit	15	36	INT	3.1 x 3.5 x 4.0	_	\$10.95	\$9.95
211764CH	MK116	Santa sleigh and reindeer kit	_	201	EXP	5.7 x 3.2	_	22.95	20.65
236072CH	MK117	Deluxe Christmas tree kit	_	208	INT	3.2 x 5.6	_	19.99	17.99
147635CH	MK100	Flashing Christmas tree kit	_	30	BEG	4.0 x 2.4	_	6.29	5.97
236081CH	MK145	Flashing pumpkin kit	16	71	INT	1.3 x 4.0 x 3.2	_	9.99	8.99



# **Ethernet Starter Kit**



microprocessors. Fun and useful application projects take you step-by-step through hard-ware and software development. Hardware includes a RCM3700 Rabbit Microprocessor Core Module plus prototyping and breadboards (6.5"L x 2.2"W), 12VDC@1A power supply,

serial cable, 2 Ethernet cables,  $8\Omega$  400mW speaker, wiring kit,  $10k\Omega$  thermistor, 0.1mF capacitor,  $10k\Omega$  potentiometer, headers, and standoffs. Software includes Dynamic C lite, libraries and samples, as well as royalty free TCP/IP protocol stack. Mix and match project hardware and software to create a new application such as a WAV file player, DC and stepper motor controller, GPS clock, and much more.

Part No.	Description	Input Voltage	Current Draw	Price
355004CH	Hovercraft kit	24-28VAC, 7-40VDC	43mA typ.@12V, 16mA typ.@40V	

				No. of	Ехр.	Dimensions	Wt.	Pri	cing
Part No.	Mfr. No.	Description	Fig.	Pieces	Level	(L" x W" x H")	(lbs.)	1	10
Robotic and Computer Control Kits									
199603CH	769K	Rockit robot expert kit	17	96	EXP	_	1.0	\$21.95	\$19.55
157366CH	007	Robotic arm kit (unassembled)	18	109	EXP	_	4.5	74.95	67.49
159345CH	007/IBM	Robotic controller software (DOS 4.2 & up, Windo	ws® 9	5/98)	-	_	1.0	84.95	76.49
140821CH	972K	Spider kit	19	107	EXP	12 x 7 x 3.5	1.2	59.95	53.95
200328CH	MK127	Running micro bug kit	20	26	INT	4.0 x 2.4	0.2	18.95	16.95
200336CH	MK129	Crawling micro bug kit	21	29	INT	4.0 x 2.4	0.2	21.45	19.35
128928CH	K8000	Computer control interface kit	_	301	EXP	9.3 x 5.3	1.7	139.95	125.95
128910CH	K6714	Universal relay controller card kit	_	64	EXP	8.3 x 5.9	1.8	59.95	53.95
120678CH	K6501	Remote control by phone kit	_	116	EXP	4.1 x 5.1	0.7	69.49	62.59
285641CH	561-4562	Hovercraft kit	22	25	BEG	_	0.8	21.79	20.69
239476CH	K2633	Relay card kit (req. 9VDC@300mA power supply, 133891CH, pg 175)	_	29	INT	3.0 x 2.7	0.4	19.99	18.99

Power 3	оирріу ан	u Motor Kits							
117621CH	K1823	1 amp power supply kit	_	12	INT	2.1 x 2.1	0.3	\$12.95	\$11.65
20626CH	JE215	Dual adj. regulated power supply kit	_	48	INT	5.1 x 3.5 x 2.0	2.1	22.95	20.49
120539CH	K8004	DC to pulse width modulator kit	_	40	EXP	3.3 x 1.9 x 1.8	0.5	22.95	20.49
127829CH	DK67	DC motor speed control kit	—	35	INT	3.6 x 2.3 x 1.2	0.2	19.95	17.95
139109CH	DK109	Unipolar stepper motor driver kit	—	29	INT	2.6 x 1.9 x 1.0	0.1	29.95	26.95
181833CH	VM-1	DC voltage monitor kit	—	46	BEG	2.7 x 1.3	0.2	8.95	7.95
263628CH	K8005	Stepper motor controller card and motor kit	_	102	INT	3.9 x 3.5	0.3	59.95	56.95

Battery Charger Kits										
314034CH	B079	Universal NiCd charger kit	23	_	_	2.2 x 2.2	_	\$15.95	\$15.15	
239521CH	K8012	Lead acid battery charger kit	_	_	_	3.8 x 5.5 x 1.6	_	39.95	37.95	
314211CH	M149	Solar cell battery charger	_	_	_	2.5 x 2.0 x 1.1	_	16.95	16.05	
Electron	Electronic Lock Kits									

LICOLIONIC LOOK KILD									
127554CH	K6400	Code lock kit	24	67	INT	1.7 x 1.8	0.5	\$29.95	\$26.95
Distance and Light Kits									
129120CH	K3502	Parking radar kit	25	55	INT	4.9 x 1.9	0.5	\$39.95	\$34.95

117639CH	K5300	Stroboscope kit	_	19	EXP	3.5 x 2.6	0.5	15.49	14.9
131684CH	K8017	3-channel light organ kit	26	80	INT	6.7 x 5.6 x 1.7	1.2	54.95	49.9
157964CH	LED1007	IR red illuminator kit	_	41	BEG	2" Dia.	0.1	16.95	15.2
125090CH	DK20	Ultrasonic alarm kit	—	49	INT	2.8 x 2.0 x 0.9	0.1	29.95	26.9
134105CH	OEM-ARN2	Voltage output distance sensor module	27	_	_	2.8 x 1.8 x 0.9	0.2	159.95	143.9
151482CH	RS-232	RS-232 output distance sensor module	_	_	_	_	1.0	179.95	161.9
200310CH	MK124	Scrolling message kit	_	76	INT	3.5 x 2.6 x 1.8	0.2	24.95	22.4
147555CH	MK101	Flashing LED sweetheart kit	_	46	INT	2.5 x 2.4 x 1.2	0.1	11.95	10.9
147580CH	MK102	Flashing LED kit	_	23	INT	1.3 x 1.4 x 0.6	0.1	7.95	7.1
136223CH	DK-79C	Light sensitive relay kit	_	20	INT	2.4 x 1.3 x 1.0	0.1	12.95	11.6
285595CH	SR-LBI	Build your own lightbulb kit	_	5	BEG	5.5 x 2.7 x 6.6	0.4	54.95	52.2
285616CH	SR-LBI-R	Refurbishment pack for lightbulb kit	_	_	BEG	_	_	14.49	13.7
313875CH	B224	Laser light show kit	28	_	_	_	_	22.95	21.8
286969CH	LFB-10	Flashing LED American flag	29	_	_	1.2 x 0.7	_	3.99	3.7

Test and Measurement Kit	S
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Color Code Legend

lew <mark>Sale Lower\$ QtySave</mark>

2040ECH	IE2204	Function generator kit		21	INIT	4.1 x 1.5	0.1	\$24.95	¢22.0
20685CH		Function generator kit	-	21	INT	4.1 X 1.5	0.1	\$24.95	\$22.9
129091CH	K7102	Metal detector kit	30	22	INT	2.1 x 2.1	0.4	11.95	10.9
157315CH	MK108	Water leak alarm kit	—	7	BEG	2.8 x 1.8	0.1	10.95	9.9
313736CH	B051	Gas/spirits sensor kit	_	_	_	_	_	29.95	28.4
313832CH	B229	Clean air measuring kit	31	_	_	4.0 x 1.5	_	29.95	28.4
313841CH	B137	Ion generator kit	_	_	_	2.0 x 1.7	_	19.95	18.9
313904CH	B160	LED VU meter kit	32	_	_	3.7 x 3.7	_	24.95	23.7





Fig. 18

Fig. 20

Fig. 23

Fig. 24

Code Lock Kit





Voltage Output Distance

Running Micro Bug Kit



Crawling Micro Bug Kit







Fig. 31

LED VU Meter Kit Fig. 32

See www.Jameco.com/Robotics for complete specifications

# PARALIAX 7 **Robotic Controller Kits**

# **Board of Education Full Kit**

The new Board of **Education Revision** C carrier board has two major changes from the Revision B. The jumper near the servo connector will select either Vdd (5 V) or Vin (unregulated input voltage) to power the servos. The three-position power switch is either off (0), power to everything but servo



connectors (1) or power to everything (2). Mechanically interlocked power supply to prevent dual connection of wall pack and 9V battery

• DB9 connector for programming and serial I/O

· Female 10-pin dual row connector for • P0 - P15 I/O pins optional AppMods

Includes: Board of Education carrier board, BASIC Stamp 2 module, pluggable wires, serial cable, CD-ROM and power supply

Part No.	Parallax No. 1	10
283101CH	28102 <b>\$118.95</b>	\$96.99

# Boe-Bot Full Kit

Now with Lower \$\$\$ Robotics text v2.0! The new text includes 41 activities for the Boe-Bot and PBASIC 2.5 source code support. The Boe-Bot's flexibility stems from the fact that it's a rolling Board of Education. The Board of Education and Basic Stamp may be removed to be used as your platform for the other Stamps in Class curriculum. The robot may be

programmed to follow a line, solve a

maze, follow light, or communicate with another robot.





Requires 4AA batteries (not included).

Partino. Pa	aranax ivo.	l l	10
282933CH 28	8132	\$198.99	\$189.00

# **Lowest Price Guarantee**



Found a product at a lower print advertised price? We'll beat that price by 10% right down to our cost!

# It's That Simple!

# Advanced Toddler Robot Kit

Walking robots have mechanical and software interdependencies that require in-depth examples and explanation. The Advanced Robotics text is an introduction to the Toddler robot's basic movements. Students using the Toddler robot will learn advanced

embedded programming with BASIC, efficient code development, sensor feedback, and general control. Because of the number of possible movements, we consider the Toddler to be appropriate for those aged 14 and above. · Height: 10" · Weight: 4.0 lbs.

Includes: 155-page Advanced Robotics text in the Stamps in Class style and the 351-page BASIC Stamp Manual

Part No.	Parallax No.	1	10
282837CH	27311	\$248.95	\$236.49

# **BS2 Educational Starter Kit**

This complete "Getting Started" kit is enhanced to include the What's a Microcontroller? (WAM) curriculum. Includes all of the BASIC Stamp hardware required



Microcontroller? parts and text making this combination a bona fide "Getting Started" kit. With the WAM kit you'll get your feet wet through a series of over 40 activities designed to provide you with the best possible introduction to the world of BASIC Stamps. Includes: BASIC Stamp 2 module, Board of Education

Programming Board, BASIC Stamp Manual, CD-ROM, jumper wires and a serial cable

Part No.	Parallax No.	1	10
282829CH	27207	\$158.95	\$152.95

# Stamp Works Kit

This all-in-one kit takes you beyond theory, into a well-written collection of 32 experiments that will teach you first class BASIC Stamp programming. You'll learn to get the most out of the BASIC Stamp and to increase its versatility by connecting to popular

active and passive components. Includes: Manual, BASIC Stamp Experiment Board, BS2-IC, 2x16 parallel LCD with custom cable, digital multimeter with 2 probes, wire cutter/stripper/pliers, three 100' rolls 22 AWG wire, screwdriver kit, photoresistor, 555 timer, 8-bit serial-to-parallel and 8-bit parallel chips, Dallas Semiconductor 1620 digital thermometer and real-time clock with 32.768MHz crystal, National Semiconductor ADC0831 8-bit A/D converter, Maxim 7219 8-digit LED display driver, National Semiconductor

LM358 op-amp, stepper motor, servo, power supply, resistor assortment, capacitors, serial cable, CD-ROM and plastic box for parts · Weight: 4.0 lbs.

Part No.	Parallax No.	Price
184946CH	27297	\$348.95

# BS2P Professional Starter Kit

Provides the engineer with all the parts required to get started with the BSP2 microcontroller. The kit includes a selection of components and ready-to-run source code

that will help master some of the exciting new features of the BSP2. Includes: Manual, BS2P demo board, BS2P-24 micro-

controller, DB9 (serial) programming cable, PCF8583 chip, 32.678kHz crystal, 24LC32 serial EEPROM, DS1822 thermometer, (3) 4.7K resistors, jumper wires

Part No.	Parallax No. 1	10
202323CH	27235 kit <b>\$207.95</b>	\$187.95
282984CH	45187 BS2P40 demo board 88.95	84.95

# Robot Builder's Source Book

McGraw-Hill Everything you need to find and acquire common and uncommon robotic parts and supplies. Jameco and over 2500 mail order suppliers and other sources, including local and international businesses all crossreferenced and categorized to make your search quick and easy (711 pages, 2003)

 Size: 8.5" x 10.0" · Weight: 3.9 lbs. Description Part No.

**Solution** Blue Part No. = Limited Quantity Available

# Robot Builder's Bonanza

TAB Publishing This fascinating quide offers a complete, unique collection of tested and proven project modules that you can mix and match to create an almost endless variety of highly intelligent and workable robot creatures.

(753 pages, 2001) • Size: 7.3" x 9.2" · Weight: 2.5 lbs

Description Part No. Price 137171CH Robot Builder's Bonanza 3 \$17.95

Blue Part No. = Limited Quantity Available

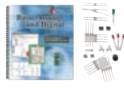
Price

See page 257 for an index of Electronics-Industry books offered in this catalog.

Robot Builder's Source Book 3

# **Basic Analog and Digital** Parts & Text V1.2

Covers the essentials of 8-bit A/D & D/A conversion using a BASIC Stamp. Introduces PBASIC commands for A/D conversion with



resistor/capacitor circuits, interfacing an ADC0831 8-bit A/D converter, scaling analog outputs into meaningful digital values, analyzing time-varying signals and using PWM as analog output.

Part No.	Parallax No.	1	10	
282950CH	28155	\$43.95	\$39.45	

# Servo Controller

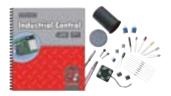
Controls up to 16 servos and may be networked together so that two servo controllers can control 32 servos using a single I/O line.



- 2400 to 384k baud serial port 63 ramp rates
- 16-bit PWM timers
   RS-232 serial protocol

Part No.	Parallax No.	Description	1	10
282896CH	28023	Servos controller	\$38.95	\$36.95

# Industrial Control Parts & Text



An educational tutorial on process control with the BASIC Stamp. Methods of process control are demonstrated in detail using a simple desktop heater system. A fan provides an external disturbance to the closed-loop system.

Part No.	Parallax No. 1	10
176575CH	28156 \$58.49	\$55.59

# **High-Efficiency Robotic Servo**

Excellent power-to-weight ratio for robotic projects.

- · Supply voltage: 4.8-6 volts Speed: 16 seconds to 60°
- Torque: 49 oz.-in. @ 4.8V
- Can be operated by P/N 151001CH, pg 124

• 0.8"W x 1.4"D x 1.6"H

	Part No.	Description	1	10
	157067CH	Robotic servo \$19.9	5	\$17.95
_				

# Flex Sensor

 Maximum resistance: 30kΩ to 40kΩ, proportional to the degree of flexing or bending

 Applications: virtual reality data gloves, robotic, bio-metric, physics and engineering Nominal resistance: 10kΩ

Part No.	Mfr. No.	Description	,	Ü		., ,	1	10
150551CH	FLX-01	Flex sensor			 		\$12.95	\$11.65

#### MONDO TRONICS Flexinol Muscle Wires®

These unique nickel-titanium alloy Muscle Wires® actually shorten in length when electrically powered, and can lift thousands of times their own weight. • Length: 1 meter

How it works... Pressing the switch lets power flow from the batteries through the Muscle Wire® heating it and causing it to contract, raise the lever and lift the weight. When power is removed, the Muscle Wire® cools and relaxes, and the weight helps it return to its starting position.

#### 141348CH: Muscle Wires® Book & Deluxe Kit

 Kit includes one each Flexinol 100, 150 and 250 Muscle Wires® and Project Book · 3 meters of wire Includes: Crimps and instructions

		Wire Dia.	Linear Resistance	Typical Current	Deform Weight*	Recovery Weight*	Typical	Pricing	
Part No.	Description	(microns)	(ohm/m)	(mA)	(grams)	(grams)	Rate**	1	10
141321CH	100LT	100	150	180	28	150	33	\$15.95	\$14.49
141874CH	150LT	150	50	400	62	330	20	16.95	15.29
160055CH	375LT	375	8	2750	393	2000	4	19.95	17.95

\* Multiply by 0.0098 to get force in Newtons \*\* Cycles per minute, in still air, at 20° Centigrade

, , ,	9	,	,			
Part No.	Description				1	10
141348CH	Muscle Wires® kit				\$56.95	\$52.95

# PRECISION NAVIGATION, INC. **Vector 2X Compass Module**

- · Pin selectable BCD or binary output format (compatible with Motorola SPI and National Microwire)
- Raw uncalibrated magnetometer output optional
- Master or slave capability for data clock generation
- Requires: Power supply 5V @ 10mA (recommend P/N 112070CH, pg 174)
- · 2° accuracy, 1° resolution
- 3-wire serial output format · Hard iron calibration
- 5Hz sampling rate





# www.Jameco.com

Our enhanced website offers more products. Find it quickly and order it easily.

# **Microcontroller Application** Cookbook Vol. 1 & 2

Vol. 1 is a wide-ranging collection of 113 interface circuits designed around the BASIC Stamp 2. For somebody getting started with microcontrollers. Discusses timing diagrams,



interfacing, A/D conversion and how to control a high-voltage circuit with a solid-state relay.

Vol. 2 is a new collection of 154 interface circuits designed around the BASIC Stamp 2.

Part No.	Paralla	x No. 1	10
282925CH	28113	\$58.95	\$55.95

# Giant Robotic Ball-Bearing Servo

Extremely powerful! Perfect for large robotic projects where power is a must.

- · Torque: 161 oz.-in.
- Power supply: 4.8-6 volts
- Speed: 19 seconds to 60°
- Can be operated by P/N 151001CH, pg 124

Part No.	Description	1	10
166351CH	Giant robotic servo	\$49.95	\$44.95

# Infrared Remote-Control Receiver Modules



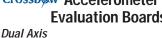


- Commonly used in TVs, VCRs, audio equipment, car stereos and home computers that receive signals or data via infrared
- Single unit module which incorporates a PIN diode and a receiving preamplifier IC
- · Excellent mechanical strength and electrical stability
- 940nm wavelength
   Size: 0.6"L x 0.6"W x 0.5"H

Part No.	Description	n Voltage Input	1	10
220628CH	38.0kHz	4.5VDC @ 1.4mA	\$2.99	\$2.69
165008CH	40.0kHz	5VDC @ 5mA	2.99	2.49
176541CH	56.8kHz	5VDC @ 2mA	1.69	1.27

# Crossbow Accelerometer **Evaluation Boards**

Evaluation board for the ADXL202,





141575CH

dual axis, 2g accelerometer. 177308CH: features RS-232 interface to connect to

PC serial ports. Also includes software to display real time acceleration data.

Part No.	Product No.	Description	1	10
177287CH	ADXL202EB	Dual axis	\$59.95	\$53.95
177308CH	ADXL202EB-232	w/ RS-232	159.95	144.95
177300011	NDNLZUZED ZUZ	W/ 103 232	137.73	177

# Crossbow Accelerometer

Triple Axis Accelerometer

- Dynamic range and excellent frequency response
- Current: 24mA Axis: 3 · Shielded cable: 2'L pigtail
- Acceleration range: ±4g
   Size: 1.9"L x 1.0"W x 0.8"H

Requires: 5VDC power supply, not included (recommend P/N 164101CH, pg 174)





# 26-Pitch Press-Fit Gears and Gear Set

- · Works with DC motors with 0.156" and 0.078" shaft diameter
- · Heavy-duty plastic construction
- Diametral pitch: 26
- · Material: polyethylene resin



162392CH 162093CH 131801CH

131801CH: 20-piece gear set includes 2 each of all the gears and bushings shown below.

\* Prepackaged: please order in increments of 10 or 100

Part No.	Description	Bore Size	PitchDia.	Works w/ Shaft Dia.	Outer Gear Dia.	1	10	100
162069CH	10 teeth gear	0.149"	0.378"	0.156 (5/32)"	0.455"	\$.89	\$.69	\$.55
162077CH	20 teeth gear	0.149"	0.756"	0.156 (5/32)"	0.842"		.69	.49
162085CH	30 teeth gear	0.149"	1.142"	0.156 (5/32)"	1.225"		.69	.49
162093CH	40 teeth gear	0.149"	1.540"	0.156 (5/32)"	1.623"		.69	.49
162106CH	50 teeth gear	0.149"	1.900"	0.156 (5/32)"	1.985"		.69	.49
162392CH	Bushing	0.075"	_	0.078 (5/64)"	<b>—</b>	*	.25	.22
Part No.	Description					1	10	50
131801CH	Gear set – 20 pie	ces of all the gea	rs and bushi	ngs shown above		\$7.99	\$7.29	\$6.49

# 16-Pitch Sprocket Set and Chain

- · Operates in high humidity and corrosive environments
- · Chain links can easily be added or removed to adjust total length
- · Chain tension load: 2.0 lbs.







168276CH: 14-piece sprocket set includes 1 each of the following: 8, 9, 10 teeth with \( \gamma^{\text{"}}\) bore size; 12, 15, 16, 18, 20, 24, 30, 32, 36, 40 and 48 teeth with \( \gamma^{\text{"}}\) bore size

Part No.	Description 1	10	25
157075CH	Drive chain (12" long)	\$8.95	\$7.95
168276CH	Sprocket set - 14 pieces (see description above)	26.49	23.89

# **Hub and 48-Pitch Gear Set**

- Low coefficient of friction requires little or no lubrication
- Residual stress removed by annealing process

168284CH: 12-piece gear set includes 1 each of the following: 10 teeth with 3/2" bore size; 14 and 16 teeth with 1/6" bore size; 20, 24, 30, 36, 44, 54, 66, 84 and 100 teeth with 1/4" bore size





Tyrannosaurus Kit

Stegosaurus Kit

157104CH

Part No.	Description	1	10	25
157104CH	1/4" bore aluminum mounting hub w/ set screws	. \$4.95	\$4.49	\$3.95
168284CH	Gear set - 12 pieces (see description above)	. 39.95	34.95	31.95

# Selectable Gear Box Kit

Great 35-piece kit for learning about gear ratios or to add a gear box to your robot project. See-through case has gear ratios from 6.8:1 to 807.93:1.

• Dillicuity	rievei: intermediate		
Part No.	Description	Dimensions	Price
145509CH	Selectable gear box kit with 3V motor	2 5"L x 1 1"W x 1 5"H	\$15.95

# Motorized Wooden Kits

# Kits, ideal for your child.

MEW Your child will love building these kits and watching them walk. These kits come with "kid friendly" pre-punched wooden parts, gearbox, gears, shafts, switch, motor, and battery holder. A marvelous educational science project for ages 8 and up, and a great way to learn about gears and transmissions. These kits require no glue or soldering, just a few simple hand tools, and 2 AA batteries (not included; see pages 183-186 for batteries). Your kids will be building these kits in no time.



Requires: knife, screw driver, and long-nose pliers

Part No.	Description	Price
242915CH	Stegosaurus kit	. \$11.95
242923CH	Tyrannosaurus kit	11.95

**Dual Adjustable Regulated** Power Supply Kit (20626CH)

# More Kits!

See pages 252-253 for our extensive selection of educational, audio, optical, speech, robotic, power, battery, electronic, distance and light, and test and measurement kits.

# Spider Couplers 162288CH (Coupler)

- Used with motors **Ouantity SAVE**
- 1 set screw per hub
- Hub OD: 0.625" Dia.
- · Hub length: 0.56"
- · Parts sold individually



Part No.	Description 1	10	50
162288CH	.125" (3.18 mm) ID hub \$1.35	\$1.15	\$.86
161998CH	.197" (5.00 mm) ID hub 1.09	.89	.59
162270CH	.250" (6.35 mm) ID hub 1.35	1.19	1.09
162000CH	Rubber spider 1.29	1.15	1.05

# **Climax Spider** Shaft Couplers

# 209285CH/106606CH:

- 1 set screw per hub
- Hub OD: 0.625"Dia.
- · Hub length: 0.56"



Size: 0.75"L x 0.5"OD



106606CH

**Quantity SAVE** 

209285CH

Part No.	Description 1	10	100
209285CH	.156" ID shaft hub \$.85	\$.65	\$.49
106606CH	.250" ID shaft hub	.69	.59
138288CH	.250" ID sleeve coupler 4.49	4.05	3.65

# Gears and Shafts Kit

Bag of gears, shafts and accessories. Great for science projects. All parts fit 2mm shaft motors.



Part No.	Description 1	10
215298CH	Gears and shafts kit \$5.89	\$5.29

# Mobile Robotic Car Design Book

McGraw Hill - This book describes a complete detail that should be clear enough for a hobbyist of how to build a robotic car, provides detailed photographs, schematics, list of vendors for parts, and software code for the processor and the digital signal processor with an

explanation of what the code does and why. Printed circuit board files are free, and can be downloaded from www.books.mcgrawhill.com/authors/ KachrooMellodge. (278 pages, 2005)

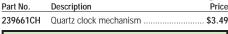
Part No.	Description	Price
313592CH	Mobile Robotic Car Design	\$23.95

# Velleman Quartz Clock Mechanism

Build your own clock or replace the clock mechanism of a damaged clock with this quartz clock mechanism from Velleman.

Includes: 1 x 1.5AA battery

· Dimensions: 2.2"Sq x 0.6"Thick Part No. Description



# Over 99% of Our Products Are In Stock

Place your order by 6PM EST for same business day shipment.



Pocket "secretary" captures

Once you begin to use this sleek,

feature & accessory-packed tapeless recorder, you'll wonder how

youever got along without it.

Record up to 396 addressable

messages totaling 2 hours (SP)

or 9 hours (SP) or 18 hours (LP)

(model 237198CH). They can be

meetings, phone conversations, and audio from external devices,

all in flawless digital clarity. USB

connectivity quickly downloads

your recordings to your PC.

earphone, external (meeting)

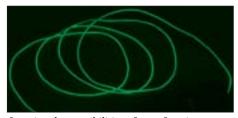
Included accessories:

or 4 hours (LP) (model 285499CH)

all your great idéas.

Digital USB Voice Recorder

# **Electroluminescence Wires**



Imagine the possibilities of transforming ordinary objects with high tech visual effects. Wrap these fluorescent wires around any objects such as musical instruments, models, science projects, and presentation boards. Super charge your projects with brilliant colors.

Powered by 2 AA batteriesLength: 4.5'

wellemen

Part No.	Product No.	Color 1	10	25
263484CH	NWRB15	Blue \$21.95	\$20.95	\$19.95
263505CH	NWRG15	Green 21.95	20.95	19.95
263492CH	NWRR15	Red 21.95	20.95	19.95

# E-Mail Desktop Microphone

Add your voice to e-mail messages, with the touch of a button!

This revolutionary desktop device will change the way you use e-mail! Simply press a button and speak into the omnidirectional condenser mic, and the technology does the rest. In seconds, your recording is packaged and attached to a ready-to-send



e-mail message, seamlessly and hassle-free. Included software facilitates file-management, and an optional add-on will even make an MP3 file from your words!

Part No.	Description	NEW	Price
315070CH	E-mail desktop microphon		

#### microphone, telephone adapter, audio cable, PC software, USB cable, and Includes all the hand strap. accessories needed!

#### Part No. Description Price Digital USB voice recorder, 2-4 hrs ...... 285499CH \$89.95 237198CH Digital USB voice recorder, 9-18 hrs ...... 129.95

# Flatwire Tape

Run home improvement and entertainment flatwire cables anywhere, invisibly!

This invisible innovation is a dream come true for do-it-yourselfers and home technology contractors! Just measure the length, peel the self-adhesive backing, and run these super-flat wires along walls, floors, under carpeting or behind molding! On finished walls, just smooth on a little spackle and paint for an amazing wiring installation that's typically only a few hundredths of an inch thick.



	Specifications With White Backing								
Part No.		Wire	Gauge	Width (in.)	Thick (in.)	Max Curr.	Typical Applications	Length (feet)	Price
263353CH		8	16	0.75	0.25	13.0A	High wattage audio & lighting	25	\$34.85
263311CH		U	10	0.73	0.23	13.04	Trigit wattage addio & lighting	100	126.85
263396CH		4 18 1.25 0.011 10.0A Indoor or outdoor pairs for two speakers	25	33.59					
263388CH		4	10	1.23	0.011	10.04	middor or outdoor pairs for two speakers	100	121.95
263417CH		2	75Ω	0.5	0.05	N/A	75Ω video coax for cable TV, video & CCTV	25	31.95
263409CH			7352	0.5	0.03	IV/A	7352 VIGEO COAX TOT CADIE TV, VIGEO & CCTV	100	115.69
263450CH	-	8	24	0.75	0.05	3.7A	4 pair UTP for 100 base, TX, Cat5 or phone	25	46.95
263433CH		O	24	0.75	0.03	3.7A	4 pail 017 for 100 base, 1%, cats or priorie	100	163.45

NEW

# Clip-on Mouse Pad

Organize and maximize your workstation.

Tired of trying to work without enough space? Free up your desk space with this convenient clip-on mouse platform. No drilling required clamps on securely to your desk or work-station without damaging the desk. This unit also stores completely below your desk so you



don't have to see it when not in use. Includes a cord clip to keep mouse cords tangle-free and in position.

art No.	Description	<i>\N \5\\\</i>	Price
249105CH	Clip-on mouse pad		\$6.99

# **Index of Electronics-Industry Books**

D	esc	ription		Page
		215061CH	Easy Microcontrol'n, Beginner's Guide	11
	Microcontrollers	137162CH	Electric Motors and Control Techniques	124
		215052CH		
ľ		200168CH	PIC BASIC Programming and Projects	12
1		174650CH	PIC Microcontroller Project Book, Beginner's Guide	11
	9	183046CH	Programming and Customizing the PIC	10
	CI C	137171CH	Robot Builder's Bonanza	254
I	2	213461CH	Robot Builder's Source Book	254
ľ		210497CH	Serial Communications PIC Applications	11
		210489CH	Time'n and Count'n, Intermediate Level PIC Apps	10
ı	Computer	236945CH	Complete Embedded Ethernet and Internet	195
ľ		116943CH	Controlling the World with Your PC	200
ı		171900CH	Everything You Need To Develop Custom USB Peripherals .	
		138261CH	Parallel Port Complete	
1		154771CH	Serial Port Complete	
		174481CH	Electronic Pocket Reference	61
	e		Hickman's Analog and RF Circuits	
	Keterence	126199CH	How to Test Everything	
	Ē	141524CH	Making Your Own Printed Circuit Board	
	ē ē	174529CH	Practical Electronics Book for Inventors	
ľ		305171CH	Rechargeable Batteries Application Handbook	
		88225CH	TTL Logic Data Book, Texas Instruments	19



# **Computer Accessories**

See pages 190-205 for our selection of Computer Products.

# **30-Day Money Back** Guarantee

If you're not completely satisfied with your purchase simply return the product within 30 days for a refund or exchange.



Details on page 258.

# Ordering Information

#### **PAYMENT OPTIONS**

#### Credit Card/Check Cards

We accept VISA, MasterCard, American Express and Discover. No surcharge. Your account will not be charged until your order is shipped. When ordering, please advise name on card and credit card billing address.

# Check or Money Order

You may pay by check or money order in U.S. funds, drawn on a U.S. bank.

#### **Open Account**

It is easy to open an account with Jameco. Contact us for obtaining open account status.

#### C.O.D.

Personal checks are accepted. Please add \$7.50 per C.O.D. order. Include the name and address of your bank and your account number.

#### International Orders

All foreign orders must be prepaid with a credit card (see approved credit cards above), wire transfer, traveler's check, cashier's check or money order drawn on a U.S. bank in U.S. funds only. Please do not send cash. Jameco cannot accept letters of credit as a form of payment.

E-mail: international@Jameco.com.

#### **SERVICES**

# 30-Day Money Back Guarantee

If for any reason you are not completely satisfied with your purchase, simply return the product, in its original packaging, within 30 days for a refund, credit or exchange. Parts returned due to customer ordering error may be subject to a restock fee. Call our customer service department at 1-800-536-4316 or visit www.Jameco.com to request an RMA#. It should appear clearly on the outside of the box. Returns without an KMA# will not be accepted, and no freight collect packages will be accepted. A completed Jameco customer service form, located on the back of the packing slip, must be included with your return. We're sorry, but books, kits, software, grab bags and special orders cannot be returned. Special orders consist of products sold at an OEM quantity discount or products not listed in the Jameco catalog.

## Jameco Warranty

Jameco warrants all merchandise against defects in material or workmanship for a period of 90 days from the original purchase date unless otherwise stated in writing by Jameco. If Jameco receives the product considered to be defective within this warranty period and the product is determined to be defective, Jameco will, at its sole option and discretion, either repair or replace the product. The foregoing is your sole and exclusive remedy and states Jameco's entire liability arising out of this warranty. [However, Jameco will transfer to customer whatever transferable warranties and indemnities Jameco receives from the manufacturer of the products. Any claims arising from such manufacturer's warranties shall be the sole responsibility of the manufacturer and not of Jameco.] Moreover, Jameco's limited warranty is void if the damage or defect has resulted from improper customer assembly, failure by customer to follow instruction, product modification, negligent or improper operation, accident, abuse or misapplication. Products returned to Jameco pursuant to this warranty must be returned to Jameco prepaid.

#### No Other Warranties

The limited warranty above is exclusive and in lieu of all other conditions and warranties for the products and documentation. Jameco makes no other conditions or warranties, express, implied, statutory or otherwise, and expressly disclaims all other conditions and warranties, including but not limited to, implied conditions or warranties of merchantability, fitness for a particular purpose, and non-infringement of the products.

# Limitation of Liability

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# **5 EASY WAYS TO ORDER**

Telephone: Toll-Free 24 hours a day!



1.800.831.4242 International orders, call 1.650.592.8097

Toll-Free FAX:



New Zealand: 080-044-0470 Other Countries: 1.650.592.2503

Online: http://www.Jameco.com



On-line catalog! Our complete offering of over 16,000 products searchable on the Jameco website!

Mail:

E-mail your order to: sales@Jameco.com or fill out the order form (next page) and mail it to us.

In-Person: Visit Jameco at 1355 Shoreway Rd., Belmont, CA. Will-call office hours are 8:00 a.m. - 5:00 p.m. Monday - Friday.

# CONTACT INFORMATION

The following services are available at 1-650-592-8097 Monday – Friday from 6:30 a.m. - 5.00 p.m. PST or via e-mail:

- International Sales (international@Jameco.com)
- Customer Service (<u>custservice@Jameco.com</u>)
- Credit Department (credit@Jameco.com)
- Technical Support (tech@Jameco.com)

#### Toll-Free Hotline!

Please call us at 1-800-831-4242.

# A Nuestros Clientes en

La Republica Mexicana: Si usted requiere tratar en Espanol y adquirir nuestros productos facturados L.A.B. Cd. De Mexico (libres de Aduana) y enviados al interior del pais via Estafeta, contacte con nuestro Representante y Distribuidor exclusivo;

### Proyeccion Electronica de Mexico, S.A. de C.V. a: General E-mail: info@proyel.com

Quote E-mail: jmc@proyel.com Phone/Fax: 01-(55) 5273-5029

Direccion:

Benjamin Franklin No. 166 Desp. 1 Col. Escandon Deleg. Miguel Hidalgo C.P. 11800 Mexico, D.F.

Los demas paises de Latinoamerica: Ya pronto tendremos servicio en su Region. Si usted tiene alguna duda o comentario respecto a los servicios de Jameco, contacte con la empresa arriba mencionada en la Ciudad de Mexico, ellos le pueden ayudar.

### **PRICES**

Prices are effective 04-11-05. In the unlikely event you find a lower price in a printed catalog or magazine, simply call us with the details at the time of purchase. We'll beat any price by 10% as long as it's above our cost. Prices and discounts are subject to change without notice. We are not responsible for any typographical errors in this catalog. Photos are representative; product appearance may vary.

# **ONLINE INFORMATION**

Get answers to frequently asked questions on the Jameco website at:

http://www.Jameco.com

# SHIPPING INFORMATION



Guaranteed Delivery Time for UPS Ground (Business Days) 1 day 2 days 3 days days 6 days 6 days

Orders received Mon.-Fri. by 6:00 p.m. Eastern Standard Time will be shipped the same day. Orders received Saturday and Sunday will ship the following Monday (except on holidays). If we are unable to fill your order on the day received, we will send you a gift certificate worth \$5.00 towards your next Jameco purchase. This offer does not apply to orders waiting for credit approval or backordered items.

#### Options and Rates\*

Shipping delivery times are based on working days.

#### Ground Service

Up to 6 working days for commercial address (up to 9 working days for residential). Guaranteed delivery times may vary depending on zip code. \$6.95 for 1st 2 lbs.: \$0.79 for each additional lb.

#### 2-Day Air Service

\$13.95 for 1st 2 lbs.; \$1.69 for each additional lb.

#### Next Day Air Service

- \$27.95 for AM delivery for 1st 2 lbs.; \$2.49 for each additional lb.
- \$19.95 for afternoon delivery for 1st 2 lbs.; \$2.29 for each additional lb.

# Priority Mail (USPS)

\$4.95 for 1st lb.; \$1.99 for each additional lb. Order must be placed before 5:00 p.m. Eastern Standard Time to ship same day Jameco reserves the right to rebill shipping surcharges for customer misaddressed packages.

\* The above rates apply to single box shipments through UPS that are less than 50 lbs. Please call for shipping quote on packages greater than 50 lbs. or for other carriers.

#### International Shipping & Handling

Shipping is via courier or postal service, depending on your preference, insurance availability, and the size and weight of your package. Jameco will apply actual shipping charges with a nominal handling charge on all foreign orders. For mail-in customers, please include 25% for shipping charges or call for a shipping quotation. All returns that meet postal requirements must be sent prepaid via air parcel post. All courier shipments to Canada and Mexico require a certificate of origin.

### **POLICIES**

#### **Confirming Orders**

Please do not send confirming orders. If company policy necessitates a confirming order, please mark "CONFIRMING" boldly on the first page of the order.

#### No Minimum Order

A \$5.00 processing fee will be added to U.S. orders under \$25.00. This fee will be waived on web orders. All international orders below \$40.00 will incur a \$7.50 processing fee.



# See previous page for Ordering Information

# Fax 1-800-237-6948 Order 24 hours/7 days a week!

Jameco, 1355 Shoreway Road, Belmont, CA 94002 Call: 1-800-831-4242 International TEL: 1-650-592-8097 FAX: 1-650-592-2503

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# Red indicates new products found on these pages.

Α	
	04.05.40
A/D CONVERTERS	
ACCELEROMETERSACCESS PANELS	
ADAPTERS	194
Audio/Video	96 97 207
Binding Post to BNC	
BNC	115,117
Digital Audio Optical	
Hard Drive	
Infrared	
Keyboard	
Modular Telephone	
Network Null Modem	
PLCC	
RF	
SCSI	
Serial	114
SMA/SMB	
SMD Adapters	
Telephone	
UHF USB	
Wall Transformers	
ZIF	
ALLIGATOR CLIPS/CONNECTORS	
ANTENNA	84
ANTI-STATIC EQUIPMENT	233
APPLE/MACINTOSH PRODUCTS	90,184,205
AUDIO EQUIPMENT	25-
Amplifiers	252
Microphone (XLR) Connectors Microphones	
RCA Cables	
Sound Cards	
Speakers	
Transmitters	
Voice Recorder	257
AUDIO/VIDEO	
Audio Plugs/Jacks	
Microphone (XLR)	
Power Plugs/JacksRCA Plugs/Jacks	
AUTOMOBILE PLUGS	
AUTOMOBILE POWER INVERTERS	203
AUTUNUTIVE	
_	
B	
В	219
BANANA PLUGS/JACKS	219
BANANA PLUGS/JACKSBASIC STAMP CONTROLLERS	219
BANANA PLUGS/JACKSBASIC STAMP CONTROLLERS	219
BANANA PLUGS/JACKSBASIC STAMP CONTROLLERSBATTERIES & ACCESSORIES	219
BANANA PLUGS/JACKS	219 220,221 15,254 183
BANANA PLUGS/JACKS	
BANANA PLUGS/JACKS	
BANANA PLUGS/JACKS	
BANANA PLUGS/JACKS. BASIC STAMP CONTROLLERS. BATTERIES & ACCESSORIES Alkaline. Books. Charger Regulator. Chargers. Holders & Snaps. Lead Acid.	
BANANA PLUGS/JACKS. BASIC STAMP CONTROLLERS. BATTERIES & ACCESSORIES Alkaline. Books. Charger Regulator. Chargers. Holders & Snaps. Lead Acid	
BANANA PLUGS/JACKS	
BANANA PLUGS/JACKS	
BANANA PLUGS/JACKS	
BANANA PLUGS/JACKS. BASIC STAMP CONTROLLERS. BATTERIES & ACCESSORIES Alkaline	
BANANA PLUGS/JACKS	
BANANA PLUGS/JACKS BASIC STAMP CONTROLLERS BATTERIES & ACCESSORIES Alkaline Books Charger Regulator Chargers Holders & Snaps Lead Acid Lithium Lithium lon NiCd NiMH Rechargeable Silver Oxide Tester Zinc Chloride BINDING POSTS BNC CABLES/CONNECTORS/ADAPTERS BNC CONNECTOR REMOVAL TOOLS BOOKS 10-12,*	
BANANA PLUGS/JACKS	
BANANA PLUGS/JACKS BASIC STAMP CONTROLLERS BATTERIES & ACCESSORIES Alkaline Books Charger Regulator Chargers Holders & Snaps Lead Acid Lithium Lithium Ion NICd NIMH Rechargeable Silver Oxide Tester Zinc Chloride BINDING POSTS BNC CABLES/CONNECTORS/ADAPTERS BNC CONNECTOR REMOVAL TOOLS BNC CONNECTOR REMOVAL TOOLS BOOKS 10-12,*	

ABLE TIES & CLAMPS	95
ABLE, ASSEMBLIES AND BULK Adapter9	90
Audio96,97,19	94
BNC	
Category 5 (UTP) Network9	92
Category 5e	37 32
Centronics9	90
Coaxial	
Digital Audio Optical	
Extension	35
Fiber Optics	2
F-Type Coaxial9	97
Hard Disk Drive	
Keyboard	
Management94,95,19	90
Modem	
Monitor90,20	)1
Mouse	
Multi-Conductor	
Null Modem9	90
Paired	
Patch	
Power Cords	
Printer	
Retractable (USB/Firewire)91,9	
Ribbon	
Serial	
Shielded	90
SMA/SMB	
Switch Box	
Telephone9	93
Testers	
USB	91
Video, Patch	
Video, RGB90,97,19 ALIPERS23	
AMERAS AND ACCESSORIES Antennas/Boosters20	
Antennas/Boosters	
CCD	
Dome	
Enclosed	
Lenses	
Mounts, Mounting Kits, Brackets20	
RF Modulator	
Surveillance	8(
Transmitters/Receivers	
Video Text Module	
APACITORS	
Assortment/Kits/Grab Bags83,24	
Ceramic Disc	
Electrolytic, Axial6	66
Electrolytic, Axial, Non-Polarized	
Electrolytic, Large Can Aluminum	
Electrolytic, Radial, Non Polarized6	
Kits8	
Memory Back-Up	
Motor6	89
Mylar	
Silver Mica	
Tantalum7	70
Trimmer, Ceramic	
ARDS, COMPUTER	
Camera Board20	
Controller	
Diagnostic	95
Firewire	
Input/Output	11

	Interface	196,	20
	Modem		
	Network		
	Parallel		
	Prototyping2		
	SCSISerial		
	Sound		
	USB		
С	Video GraphicsD-ROM DRIVES & ACCESS		19
Ċ	D-Rs		19
С	HEMICAL CLEANERS & ACCESS		24
	HOKES		
C	IRCUIT BOARD MNTG. HDWR	144,	24
	IRCUIT BOARDS2		
	LEANERS/DEGREASERS		24
	LIPS		
	Alligator		
	Test		
	LOCK CHIPS		
	LOCK MODULES		
Č	OMPASS MODULE		25
С	OMPASS MODULEOMPONENT ASSORTMENTS		
	Carbon Film Resistors		
	SMD Resistors		7
_	Springs		14
	OMPONENT CABINETS		24
	OMPUTER Accessories	04	10
	Accessories		
	Adapter		
	Brackets		
	Cables, Int./Ext./Network89-91,114,194,1		
	Cameras		
	Card Reader		
	Cases/Enclosures1	90,194,2	20
	CPU Fans		19
	CPUs/MPUs		
	Data Acquisition, Cards/Software		
	Drives1		
	Embedded Processors		
	Fans Hardware/Brackets/Rails	01	10
	Industrial Products190,1	91, 01 105 '	18 26
	Keyboards		
	Lights		
	Memory		
	Mice/Trackballs		
	Modding Accessories		
	Monitor		
	Motherboards		
	Power Cords		
	Power Supplies		
	Prototype Boards	245-2	24
	Signal Converter		
	Switch BoxesVideo RAM		
_	ONNECTORS		••••
_	ATX		10
	Audio/Video		
	BNC		
	Card Edge		
	Centronics, IDC/PCB Right Angle		
	Centronics, Parallel Interface		
	Coax		
	Contacts100,1		
	DIN		
	D-Sub.		10
	D-Sub, Hardware/Hoods/Crimp Housing	100,	10
	D-Sub, IDC/Solder Cup	100,	10
	D-Sub, PC Mount/Right Angle/Straight		
	F Type		9
	Gender Changers		
	Header Housings103,104,1		
	Headers103-106,108,110,1		
	Housings, Square Pin		
	IDC Headers		
	IDC Housing Connectors		
	IDC Plug & Socket/Wire1		
	Jones Plugs and Sockets		
	MCX		
	Modular/Telephone		
	MolexNetwork		
	N-Type		
	Pins, Crimp/Power100,102,103,1	05 106	10 10
	Power1		
	RCA Jacks/Plugs		



CONNECTORS continued	
RF	
Shorting Blocks	110
SMA/SMB	115, <mark>116</mark> ,118
Telecom Splice	121
Telephone	
Terminal Blocks	119
TNC	
Twist On	
USB	
XLR	
ZIF	
CONSUMER PRODUCTS	
Compasses	210
Miscellaneous	253
CONTROLLER CARDS	
CONTROLLERS	101
Micro	10 15
Motor	
PIC	
Robotics	
CONVERTERS. DC-DC	
Encapsulated	165-167
Enclosed	
Non-Isolated	
Open Frame	
CONVERTERS, SIGNAL	200
COOLERS, THERMOELECTRIC/CHIPS	
CORDS, POWER	180-182
COUPLERS, SHAFT	256
CPUs	
CRIMP PINS100-103,10	
CRIMPING TOOLS10	
CRYSTALS	,2,220,220,202
HC33/U Case	80
HC49/S Case	
HC49/U Case	
Monolithic	
Resonators	
SMD HC49U	
TTL (Full Can)	
TTL (Half Can)	
Tuning Fork	
raining rott	02
D	
ט	

D/A CONVERTERS	34,35,42
DATA ACQUISITION	
DATA BOOKS 10-12, 19, 48, 61, 124, 195, 198, 200,	222,242,254
DC/GEARHEAD MOTORS	126,127
DC-AC INVERTERS	203
DC-DC CONVERTERS	
DESOLDER STATION & EQUIP	
DEVELOPMENT KITS	
DIGITAL I/O MODULES/CARDS	195
DIGITAL LABS	
DIGITAL MULTIMETERS	210-214 220
DIGITAL PANEL METERS	
DIN-RAIL PRODUCTS	
DIODES	104
Diac	47.52
Diacs/Triacs/Sidacs	52, 1452
Dot Matrix Displays	
General Purpose	
Germanium	
Infrared (LEDs)	
Kits/Grab Bags	
LED Displays	
LEDs Miscellaneous	
Quadrac	
Rectifiers, Bridge, SCR	
Surface Mount	
Switching	46
Transient Voltage Suppressor	47,52,53
Triacs	
Zener	
DIP SWITCHES	
DISPLAYS, LED & LCD59	9,60,188,189
DISPLAYS, VIDEO TEXT	205
DRILL BITS	223
DRIVES, COMPUTER	
Accessories	
CD-R/RW	
CD-ROM	
Floppy	194
Hard	
Optical	
PCMCIA	
Thumb Drives	198

# E-F

EDUCATION & HOBBY	252
EDUCATIONAL ELECTRONIC LABS	
EPROMS	6,7
ELAB	33
LECTRONIC KITS	50, <mark>252</mark> -256
EMI SUPPRESSION CORE	178
ENCLOSURES178,190, <mark>191</mark> ,1	94,201,244
EPROM ACCESSORIES	233,249
EPROM PROGRAMMERS/ERASERS	248.249
EPROMS ESP SMT TOOLS & ACCESSORIES	6,43
ESP SMT TOOLS & ACCESSORIES	246,247
ETHERNET PRODUCTS	196,198
FANS & ACCESSORIES	
AC Tube-Axial	
Brushless DC	
Cords	
CPU Heat Sink w/ Fan	
Filters	
Guards	
PC	
FAX/MODEMS	
FIBER OPTICS	
FILESFILESFILTERS,PWR. ENTRY/LINE/AC PLUG	230
FILTERS,PWR. ENTRY/LINE/AC PLUG	172,182
FIREWIRE CABLESFISH TAPE	
FLASHLIGHTS/ACCESSORIES	231
FLOPPY DRIVES/ACCESS	239 00 11 <i>1</i> 10 <i>1</i>
FLUORESCENT LAMPS	
FREQUENCY COUNTERS	
FUME EXTRACTOR & ACCESS.	
FUNCTION GENERATORS	
FUSES & ACCESSORIES	211-213
Clips	70
Fuses	79
Holders	
Resettable Fuses	
Thermal (NTE)	

# G-H

GALs	16
GEARS	256
GENDER CHANGERS/ADAPTERS	91,99,114
GENERATOR, TELEPHONE RINGER	200
GIPR (IEEE-488)	
Cables	89
Cards, PC	195
GLUE GUN & STICKS	231
GRAB BAGS	240 244
GROUNDING/STATIC CONTROL	222
HALL EFFECT SENSORS	
HARD DISK DRIVES/ACCESS89	141
HARDWARE	9,193,194
	04.05
Cable Mounting	
Computer Brackets	
Drive Mounting	
Fan Guards	
Handles	
Heat Sink Mounting	
Kit	
Knobs	
LED Mounting	61
NTE	
PCB Mounting	144,245
Prototype Enclosures	244
Rubber Feet	144
Screws, Nuts, Washers101,144	1.190.245
Spacers101,144	
Standoffs	144
HEADER PLUGS	
HEADERS103,104,105,106,108,110	113 119
HEAT GUNS	226
HEAT SHRINK TUBING	95
HEAT SINKS & ACCESSORIES	
486/Pentium Heat Sink & Fan	102
Clip on	238
Compound	2/1
CPU	
Heat Sink w/ fan	102
Mounting KitsThermo Pad	
TO-3 to TO-220 HOME AUTOMATION	46
	239
HOME OFFICE	
Computer Accessories	257
Printers & Accessories	198
Stapler/Staples	
Voice Recorder	
HOODS, D-SUB	
HUBS	198

I/O CARDS	<u> </u>	
IEEE CABLE/ACCESSORIES   1284	I/O CARDS	195-197
1284 (Firewire)         91           1394 (Firewire)         91           488 (GIPB)         89           Cards, PC         195           INDUCTORS, TOROID         78           INDUSTRIAL COMPUTING         190           INFRARED         190           Cameras         206           Diodes         61,112           Kits         252,253           Remote Control Modules         252,53           Remote Control Modules         252,52           Remote Control Modules         252,52           Remote Control Modules         252,62           Accessories         8,99           Accessories         8,99           Nocation Control Modules         192,20           INTEROLOGION	IEEE CARLE/ACCESCORIES	133-131
1394 (Firewire)         91           488 (GIPB)         89           Cards, PC         195           INDUCTORS, TORID         78           INDUSTRIAL COMPUTING         190           INFRARED         206           Cameras         206           Diodes         61,112           Kits         252,253           Remote Control Modules         255           Thermometers         219,220           USB Transceiver         198           INPUT DEVICES         Accessories         89,90           Card Reader         199           Keyboards/Keypads         190,204           Mice/Pointing Devices         204           INTEGRATED CIRCUITS         4000-CMOS Logic (DIP/SOIC)         29,30           5000 Series Processors         33           6500 Series Commodore Processors         8           8800/68000 Series Processors         8,9           740-TTL (DIP)         30,31,240           74ABT-BICMOS Logic (DIP/SOIC)         17,18           74AC-CMOS Logic (DIP/SOIC)         17,18           74AC-CMOS Logic (DIP/SOIC)         20           74ALYC-LV. CMOS Logic (SOICTSSOP)         29           74C-TTL, CMOS (DIP/SOIC)         25,	IEEE CABLE/ACCESSORIES	00.00
488 (ĠIPB)         .89           Cards, PC         .195           INDUCTORS, TOROID         .78           INDUSTRIAL COMPUTING         .190           INFRARED         .206           Diodes         .61,112           Kits         .252,253           Remote Control Modules         .255           Thermometers         .219,220           USB Transceiver         .198           INPUT DEVICES         .89,90           Accessories         .89,90           Accessories         .89,90           Keyboards/Keypads         .190,204           Mice/Pointing Devices         .204           INTEGRATED CIRCUITS         .204           400-CMOS Logic (DIP/SOIC)         .29,30           5000 Series Processors         .33           3600 Series Commodore Processors         .8           8600/6800 Series Processors         .8           3600 Series Commodore Processors         .8           4800/6800 Series Processors         .8           5800 Series Commodore Processors         .8           897400-TTL (DIP)         .30,31,240           74ABC-CMOS Logic (DIP/SOIC)         .21           74ABC-CMOS Logic (DIP/SOIC)         .21		
Cards, PC	1394 (Firewire)	91
INDUCTORS, TOROID.	488 (GIPB)	89
INDUCTORS, TOROID.	Cards. PC	195
INFRARED   Cameras	INDUCTORS, TOROID	78
INFRARED   Cameras	INDUSTRIAL COMPLITING	190
Cameras         206           Diodes         61,112           Kits         252,253           Remote Control Modules         2,255           Thermometers         219,220           USB Transceiver         198           INPUT DEVICES         Accessories         89,90           Accessories         89,90           Keyboards/Keypads         190,204           Mice/Pointing Devices         204           INTEGRATED CIRCUITS         4000-CMOS Logic (DIP/SOIC)         29,30           5000 Series Processors         33           6500 Series Commodore Processors         8           8600/68000 Series Processors         8,9           8600/68000 Series Processors         8,9           7400-TTL (DIP)         30,31,240           74ABT-BICMOS Logic (DIP/SOIC)         21           74AC-CMOS Logic (DIP/SOIC)         12,1           74AC-CMOS Logic (DIP/SOIC)         18,19           74AHC-CMOS Logic (DIP/SOIC)         20,1           74ALY-C-LV. CMOS Logic (SOIC/TSSOP)         29           74C-TTL (DMS Logic (SOIC/TSSOP)         29           74C-TTL (DMS Logic (SOIC/TSSOP)         29           74LYC-LV. CMOS Logic (SOIC/TSSOP)         29           74S-TTL (DIP/SOIC)		190
Diodes         61,112           Kits         252,253           Remote Control Modules         255           Thermometers         219,220           USB Transceiver         198           INPUT DEVICES         198           Accessories         89,90           Card Reader         199,204           Mice/Pointing Devices         204           INTEGRATED CIRCUITS         4000-CMOS Logic (DIP/SOIC)         29,30           5000 Series Processors         33           6500 Series Commodore Processors         38           6800/68000 Series Processors         8,9           7400-TTL (DIP)         30,31,240           74ABT-BICMOS Logic (DIP/SOIC)         17,18           74AC-CMOS Logic (DIP/SOIC)         17,18           74AC-CMOS Logic (DIP/SOIC)         19           74AHCT-CMOS Logic (DIP/SOIC)         20           74ALCT-CMOS Logic (DIP/SOIC)         20           74ALCT-TL (DIP/SOIC)         29           74C-TTL, CMOS (DIP)         30,31           74F-TTL (DIP/SOIC)         25,26           74HC-CMOS Logic (DIP/SOIC)         22,23           74HC-T-CMOS Logic (DIP/SOIC)         22,23           74HC-T-CMOS Logic (DIP/SOIC)         22,23		000
Kits         252,253           Remote Control Modules         255           Thermometers         219,220           USB Transceiver         198           INPUT DEVICES         199           Accessories         89,90           Card Reader         199           Keyboards/Keypads         190,204           Mice/Pointing Devices         204           INTEGRATED CIRCUITS         200           4000-CMOS Logic (DIP/SOIC)         29,30           5000 Series Processors         33           6800/68000 Series Processors         8,8           6800/68000 Series Processors         8,8           6800/68000 Series Processors         8,8           6800/68000 Series Processors         8,8           6800/68000 Series Processors         8,9           7400-TTL (DIP)         30,31,240           74ABT-BICMOS Logic (DIP/SOIC)         21           74AC-CMOS Logic (DIP/SOIC)         18,19           74AHCT-CMOS Logic (DIP/SOIC)         18,19           74AHCT-CMOS Logic (DIP/SOIC)         20           74ALY-LV. CMOS Logic (SOIC/TSSOP)         29           74C-TTL (DMS Logic (SOIC/TSSOP)         29           74H-C-CMOS Logic (DIP/SOIC)         22,24           7		
Remote Control Modules         .255           Thermometers         .19,220           USB Transceiver         .198           INPUT DEVICES		
Thermometers		
USB Transceiver INPUT DEVICES Accessories		
USB Transceiver INPUT DEVICES Accessories	Thermometers	219,220
INPUT DEVICES		
Accessories	INPLIT DEVICES	
Card Reader         199           Keyboards/Keypads         190,204           Mice/Pointing Devices         204           INTEGRATED CIRCUITS         2000-CMOS Logic (DIP/SOIC)         29,30           5000 Series Processors         33           6800/68000 Series Processors         8,9           7400-TTL (DIP)         30,31,240           74ABT-BICMOS Logic (DIP/SOIC)         21           74AC-CMOS Logic (DIP/SOIC)         17,18           74AC-CMOS Logic (DIP/SOIC)         18,19           74AHCT-CMOS Logic (DIP/SOIC)         20           74AHC-CMOS Logic (DIP/SOIC)         20           74AHC-T.CMOS Logic (DIP/SOIC)         20           74ALV-C-L.V. CMOS Logic (SOIC/TSSOP)         29           74C-TTL (DIP/SOIC)         25,26           74H-C-CMOS Logic (DIP/SOIC)         22,23           74H-C-CMOS Logic (DIP/SOIC)         22,23           74H-CT-CMOS Logic (DIP/SOIC)         22,23           74H-CT-CMOS Logic (DIP/SOIC)         22,23           74H-CT-CMOS Logic (SOIC/TSSOP)         29           74S-TTL (DIP)-SOIC)         26-28,240           74LV-C-L.V. CMOS Logic (SOIC/TSSOP)         29           74S-TTL (DIP)-SOIC         29           74S-TTL (DIP/SOIC)         26-28,240 <td>Accessories</td> <td>89 90</td>	Accessories	89 90
Keyboards/Keypads         190,204           Mice/Pointing Devices         204           MINTEGRATED CIRCUITS         2000-CMOS Logic (DIP/SOIC)         29,30           5000 Series Processors         33           6500 Series Commodore Processors         8           6800/68000 Series Processors         8,9           7400-TTL (DIP)         30,31,240           74ABT-BIGMOS Logic (DIP/SOIC)         21           74AC-CMOS Logic (DIP/SOIC)         17,18           74AC-T-CMOS Logic (DIP/SOIC)         20           74AHC-CMOS Logic (DIP/SOIC)         20           74ALC-TCMOS Logic (DIP/SOIC)         20           74ALC-TTL (DIP/SOIC)         20           74ALLS-TTL (DIP/SOIC)         29           74ALVC-LV CMOS Logic (SOIC/TSSOP)         29           74ALT-CMOS Logic (DIP/SOIC)         22           74HC-TMC-CMOS Logic (DIP/SOIC)         22           74HC-TMC-CMOS Logic (SOIC/TSSOP)         29           74LS-TTL (DIP/SOIC)         22           74LVC-LV. CMOS Logic (SOIC/TSSOP)         29           74S-TTL (DIP/SOIC)         26-28,240           74LVC-LV. CMOS Logic (SOIC/TSSOP)         29           74S-TTL (DIP/SOIC)         24           74S-TTL (DIP)         31		
Mice/Pointing Devices   204     INTEGRATED CIRCUITS   4000-CMOS Logic (DIP/SOIC)   29,30     5000 Series Processors   33     5000 Series Commodore Processors   8,9     7400-TTL (DIP)   30,31,240     74ABT-BICMOS Logic (DIP/SOIC)   21     74AC-CMOS Logic (DIP/SOIC)   17,18     74ACT-CMOS Logic (DIP/SOIC)   18,19     74AHC-CMOS Logic (DIP/SOIC)   20,21     74ALC-CMOS Logic (DIP/SOIC)   20,21     74ALC-CMOS Logic (DIP/SOIC)   20,21     74ALC-TTL (DIP/SOIC)   29     74ALV-L-V. CMOS Logic (SOIC/TSSOP)   29     74C-TTL, CMOS LOGIC (DIP/SOIC)   22,23     74F-TTL (DIP/SOIC)   25,26     74HC-CMOS Logic (DIP/SOIC)   22,23     74HCT-CMOS Logic (DIP/SOIC)   26-28,240     74LS-TTL (DIP/SOIC)   26-28,240     74LV-C-L-V. CMOS Logic (SOIC/TSSOP)   29     74S-TTL (DIP/SOIC)   26-28,240     74LV-C-MOS Logic (SOIC/TSSOP)   29     74S-TTL (DIP/SOIC)   26-28,240     74LV-C-MOS Logic (SOIC/TSSOP)   29     74S-TTL (DIP/SOIC)   26-28,240     74S-TTL (DIP		
INTEGRATED CIRCUITS		
4000-CMOS Logic (DIP/SOIC)         29,30           5000 Series Processors         33           6500 Series Commodore Processors         8           6800/68000 Series Processors         8,9           7400-TTL (DIP)         30,31,240           74ABT-BICMOS Logic (DIP/SOIC)         21           74AC-CMOS Logic (DIP/SOIC)         17,18           74AC-CMOS Logic (DIP/SOIC)         20           74AHC-CMOS Logic (DIP/SOIC)         20,21           74AHC-CMOS Logic (DIP/SOIC)         29           74AHVC-L.V. CMOS Logic (SOIC/TSSOP)         29           74C-TTL (DMOS LOGIC (DIP/SOIC)         25,26           74HC-CMOS Logic (DIP/SOIC)         22,23           74HC-TMOS Logic (DIP/SOIC)         22,23           74HC-TMOS Logic (DIP/SOIC)         22,23           74HC-TMOS Logic (SOIC/TSSOP)         29           74S-TTL (DIP/SOIC)         26-28,240           74LYC-L.V. CMOS Logic (SOIC/TSSOP)         29           74S-TTL (DIP)         31           8000 Series Intel-Compatible         9           87C/9C Microprocessors         43           9000 Series         31           A/D & DA Converters         34,34,24           Anachip/ICT PLDs         16           Anachip/ICT PLDs		204
5000 Series Processors         33           6500 Series Commodore Processors         8,9           6800/68000 Series Processors         8,9           7400-TTL (DIP)         30,31,240           74ABT-BICMOS Logic (DIP/SOIC)         21           74AC-CMOS Logic (DIP/SOIC)         17,18           74AC-CMOS Logic (DIP/SOIC)         20           74AHCT-CMOS Logic (DIP/SOIC)         20,21           74ALS-TTL (DIP/SOIC)         29           74ALVC-L.V. CMOS Logic (SOIC/TSSOP)         29           74C-TTL (DIP/SOIC)         25,26           74HC-CMOS Logic (DIP/SOIC)         22,23           74HC-CMOS Logic (DIP/SOIC)         22,23           74HC-CMOS Logic (DIP/SOIC)         22,23           74HC-CMOS Logic (SOIC/TSSOP)         29           74LVC-L.V. CMOS Logic (SOIC/TSSOP)         29           74S-TTL (DIP/SOIC)         26-28,240           74LVC-L.V. CMOS Logic (SOIC/TSSOP)         29           74S-TTL (DIP)         31           8000 Series         31           4000 Series Intel-Compatible         9           87C/9C Microprocessors         43           9000 Series         31           4DA & D/A Converters         34,35,42           4nachip/ICT PLDs         16	INTEGRATED CIRCUITS	
5000 Series Processors         33           6500 Series Commodore Processors         8,9           6800/68000 Series Processors         8,9           7400-TTL (DIP)         30,31,240           74ABT-BICMOS Logic (DIP/SOIC)         21           74AC-CMOS Logic (DIP/SOIC)         17,18           74AC-CMOS Logic (DIP/SOIC)         20           74AHCT-CMOS Logic (DIP/SOIC)         20,21           74ALS-TTL (DIP/SOIC)         29           74ALVC-L.V. CMOS Logic (SOIC/TSSOP)         29           74C-TTL (DIP/SOIC)         25,26           74HC-CMOS Logic (DIP/SOIC)         22,23           74HC-CMOS Logic (DIP/SOIC)         22,23           74HC-CMOS Logic (DIP/SOIC)         22,23           74HC-CMOS Logic (SOIC/TSSOP)         29           74LVC-L.V. CMOS Logic (SOIC/TSSOP)         29           74S-TTL (DIP/SOIC)         26-28,240           74LVC-L.V. CMOS Logic (SOIC/TSSOP)         29           74S-TTL (DIP)         31           8000 Series         31           4000 Series Intel-Compatible         9           87C/9C Microprocessors         43           9000 Series         31           4DA & D/A Converters         34,35,42           4nachip/ICT PLDs         16	4000-CMOS Logic (DIP/SOIC)	29,30
6800/68000 Series Processors         8,9           7400-TTL (DIP)         30,31,240           74ABT-BICMOS Logic (DIP/SOIC)         21           74AC-CMOS Logic (DIP/SOIC)         17,18           74ACT-CMOS Logic (DIP/SOIC)         18,19           74AHCT-CMOS Logic (DIP/SOIC)         20           74AHCT-CMOS Logic (DIP/SOIC)         20,21           74ALV-TTL (DIP/SOIC)         29           74C-TTL, CMOS Logic (SOIC/TSSOP)         29           74C-TTL, CMOS Logic (DIP/SOIC)         25,26           74HC-CMOS Logic (DIP/SOIC)         22,23           74H-CT-CMOS Logic (DIP/SOIC)         24           74LS-TTL (DIP/SOIC)         26-28,240           74LVC-L.V. CMOS Logic (SOIC/TSSOP)         29           74S-TTL (DIP)         31           8000 Series Intel-Compatible         9           97C/9C Microprocessors         43           47D & D/A Converters         34,35,42           Anachip/ICT PLDs         16           Analog, NTE         49           Atmel Microprocessors         12           Audio         37           3Coke Chips & Modules         31,33           Converters         34,35,42           Chus/MPUs         193           Dallas S	5000 Series Processors	33
7400-TTL (DIP)         30,31,240           74ABT-BICMOS Logic (DIP/SOIC)         21           74AC-CMOS Logic (DIP/SOIC)         17,18           74ACT-CMOS Logic (DIP/SOIC)         18,19           74AHC-CMOS Logic (DIP/SOIC)         20           74AHCT-CMOS Logic (DIP/SOIC)         29           74ALS-TTL (DIP/SOIC)         29           74ALVC-L.V. CMOS Logic (SOIC/TSSOP)         29           74C-TTL, CMOS (DIP)         30,31           74F-TTL (DIP/SOIC)         25,26           74HC-CMOS Logic (DIP/SOIC)         22,23           74HCT-CMOS Logic (DIP/SOIC)         26-28,240           74LVC-L.V. CMOS Logic (SOIC/TSSOP)         29           74S-TTL (DIP/SOIC)         26-28,240           74LVC-L.V. CMOS Logic (SOIC/TSSOP)         29           74S-TTL (DIP)         31           8000 Series Intel-Compatible         9           87C/9C Microprocessors         43           9000 Series         31           A/D & D/A Converters         34,35,42           Anachip/ICT PLDs         16           Analog, NTE         49           Atmel Microprocessors         12           Audio         31           ACock Chips & Modules         31,33           Comp		
7400-TTL (DIP)         30,31,240           74ABT-BICMOS Logic (DIP/SOIC)         21           74AC-CMOS Logic (DIP/SOIC)         17,18           74ACT-CMOS Logic (DIP/SOIC)         18,19           74AHC-CMOS Logic (DIP/SOIC)         20           74AHCT-CMOS Logic (DIP/SOIC)         29           74ALS-TTL (DIP/SOIC)         29           74ALVC-L.V. CMOS Logic (SOIC/TSSOP)         29           74C-TTL, CMOS (DIP)         30,31           74F-TTL (DIP/SOIC)         25,26           74HC-CMOS Logic (DIP/SOIC)         22,23           74HCT-CMOS Logic (DIP/SOIC)         26-28,240           74LVC-L.V. CMOS Logic (SOIC/TSSOP)         29           74S-TTL (DIP/SOIC)         26-28,240           74LVC-L.V. CMOS Logic (SOIC/TSSOP)         29           74S-TTL (DIP)         31           8000 Series Intel-Compatible         9           87C/9C Microprocessors         43           9000 Series         31           A/D & D/A Converters         34,35,42           Anachip/ICT PLDs         16           Analog, NTE         49           Atmel Microprocessors         12           Audio         31           ACock Chips & Modules         31,33           Comp	6800/68000 Series Processors	8,9
74AC-CMOS Logic (DIP/SOIC)         17,18           74ACT-CMOS Logic (DIP/SOIC)         18,19           74AHC-CMOS Logic (DIP/SOIC)         20           74AHCT-CMOS Logic (DIP/SOIC)         20,21           74ALS-TTL (DIP/SOIC)         29           74C-TTL, CMOS (DIP)         30,31           74F-TTL (DIP/SOIC)         25,26           74HC-CMOS Logic (DIP/SOIC)         22,23           74HCT-CMOS Logic (DIP/SOIC)         22,23           74HCT-CMOS Logic (DIP/SOIC)         26-28,240           74LVC-LV. CMOS Logic (SOIC/TSSOP)         29           74S-TTL (DIP/SOIC)         26-28,240           74LVC-LV. CMOS Logic (SOIC/TSSOP)         29           74S-TTL (DIP)         31           8000 Series Intel-Compatible         9           987C/9C Microprocessors         43           9000 Series         31           AD & D/A Converters         34,35,42           Anachip/ICT PLDS         16           Analog, NTE         49           Atmel Microprocessors         12           Audio         37,38           Colock Chips & Modules         31,33           Conyarrators         37,38           Converters         34,35,42           CPUs/MPUs	7400-TTL (DIP)	30,31,240
74AC-CMOS Logic (DIP/SOIC)         17,18           74ACT-CMOS Logic (DIP/SOIC)         18,19           74AHC-CMOS Logic (DIP/SOIC)         20           74AHCT-CMOS Logic (DIP/SOIC)         20,21           74ALS-TTL (DIP/SOIC)         29           74C-TTL, CMOS (DIP)         30,31           74F-TTL (DIP/SOIC)         25,26           74HC-CMOS Logic (DIP/SOIC)         22,23           74HCT-CMOS Logic (DIP/SOIC)         22,23           74HCT-CMOS Logic (DIP/SOIC)         26-28,240           74LVC-LV. CMOS Logic (SOIC/TSSOP)         29           74S-TTL (DIP/SOIC)         26-28,240           74LVC-LV. CMOS Logic (SOIC/TSSOP)         29           74S-TTL (DIP)         31           8000 Series Intel-Compatible         9           987C/9C Microprocessors         43           9000 Series         31           AD & D/A Converters         34,35,42           Anachip/ICT PLDS         16           Analog, NTE         49           Atmel Microprocessors         12           Audio         37,38           Colock Chips & Modules         31,33           Conyarrators         37,38           Converters         34,35,42           CPUs/MPUs	74ABT-BICMOS Logic (DIP/SOIC)	21
74AHC-CMOS Logic (DIP/SOIC)         20           74AHCT-CMOS Logic (DIP/SOIC)         20,21           74ALS-TTL (DIP/SOIC)         29           74ALVC-L.V. CMOS Logic (SOIC/TSSOP)         29           74C-TTL, CMOS (DIP)         30,31           74F-TTL (DIP/SOIC)         25,26           74HC-CMOS Logic (DIP/SOIC)         22,23           74HCT-CMOS Logic (DIP/SOIC)         26-28,240           74LS-TTL (DIP/SOIC)         26-28,240           74LVC-L.V. CMOS Logic (SOIC/TSSOP)         29           74S-TTL (DIP)         31           8000 Series Intel-Compatible         9           87C/9C Microprocessors         43           9000 Series         31           A/D & D/A Converters         34,35,42           Anachip/ICT PLDs         16           Analog, NTE         49           Atmel Microprocessors         12           Audio         37           BASIC STAMP/Accessories         15,16,254           Buffers         38           Clock Chips & Modules         31,33           Corparators         37,38           Clock Chips & Modules         31,33           Corparators         37,38           Clock Chips & Modules         31 <td>74AC-CMOS Logic (DIP/SOIC)</td> <td>17 18</td>	74AC-CMOS Logic (DIP/SOIC)	17 18
74AHC-CMOS Logic (DIP/SOIC)         20           74AHCT-CMOS Logic (DIP/SOIC)         20,21           74ALS-TTL (DIP/SOIC)         29           74ALVC-L.V. CMOS Logic (SOIC/TSSOP)         29           74C-TTL, CMOS (DIP)         30,31           74F-TTL (DIP/SOIC)         25,26           74HC-CMOS Logic (DIP/SOIC)         22,23           74HCT-CMOS Logic (DIP/SOIC)         26-28,240           74LS-TTL (DIP/SOIC)         26-28,240           74LVC-L.V. CMOS Logic (SOIC/TSSOP)         29           74S-TTL (DIP)         31           8000 Series Intel-Compatible         9           87C/9C Microprocessors         43           9000 Series         31           A/D & D/A Converters         34,35,42           Anachip/ICT PLDs         16           Analog, NTE         49           Atmel Microprocessors         12           Audio         37           BASIC STAMP/Accessories         15,16,254           Buffers         38           Clock Chips & Modules         31,33           Corparators         37,38           Clock Chips & Modules         31,33           Corparators         37,38           Clock Chips & Modules         31 <td>74ACT-CMOS Logic (DIP/SOIC)</td> <td>18 10</td>	74ACT-CMOS Logic (DIP/SOIC)	18 10
74ALS-TTL (DIP/SOIC)         29           74ALVC-LV CMOS Logic (SOIC/TSSOP)         29           74C-TTL, CMOS (DIP)         30.31           74F-TTL (DIP/SOIC)         25,26           74HC-CMOS Logic (DIP/SOIC)         22,23           74HS-TTL (DIP/SOIC)         26-28,240           74LVC-LV. CMOS Logic (SOIC/TSSOP)         29           74S-TTL (DIP)         31           8000 Series Intel-Compatible         9           87C/9C Microprocessors         43           9000 Series         341           47D & D/A Converters         34,35,42           Anachip/ICT PLDS         16           Analog, NTE         49           Atmel Microprocessors         12           Audio         37           BASIC STAMP/Accessories         15,16,254           Buffers         38           Clock Chips & Modules         31,33           Comparators         37,38           Converters         34,35,42           Puls/MPUs         193           Dallas Semiconductors         31           30         31,33           Converters         34,35,42           4D Evelopment Kits         13-15           Digital Signal Converters         <	74AUC CMOS Logic (DIP/SOIC)	20
74ALS-TTL (DIP/SOIC)         29           74ALVC-LV CMOS Logic (SOIC/TSSOP)         29           74C-TTL, CMOS (DIP)         30.31           74F-TTL (DIP/SOIC)         25,26           74HC-CMOS Logic (DIP/SOIC)         22,23           74HS-TTL (DIP/SOIC)         26-28,240           74LVC-LV. CMOS Logic (SOIC/TSSOP)         29           74S-TTL (DIP)         31           8000 Series Intel-Compatible         9           87C/9C Microprocessors         43           9000 Series         341           47D & D/A Converters         34,35,42           Anachip/ICT PLDS         16           Analog, NTE         49           Atmel Microprocessors         12           Audio         37           BASIC STAMP/Accessories         15,16,254           Buffers         38           Clock Chips & Modules         31,33           Comparators         37,38           Converters         34,35,42           Puls/MPUs         193           Dallas Semiconductors         31           30         31,33           Converters         34,35,42           4D Evelopment Kits         13-15           Digital Signal Converters         <	74AHCT CMOCL - 7:- (DID/COIC)	20
74ALVC-L.V. CMOS Logic (SOIC/TSSOP).       29         74C-TTL, CMOS (DIP).       30,31         74F-TTL (DIP/SOIC).       25,26         74H-C-CMOS Logic (DIP/SOIC).       22,23         74H-CT-CMOS Logic (DIP/SOIC).       26-28,240         74LS-TTL (DIP/SOIC).       26-28,240         74LVC-L.V. CMOS Logic (SOIC/TSSOP).       29         74S-TTL (DIP).       31         8000 Series Intel-Compatible.       9         87C/9C Microprocessors.       43         9000 Series.       31         A/D & D/A Converters.       34,35,42         Anachip/ICT PLDs.       16         Analog, NTE.       49         Atmell Microprocessors.       12         Audio.       37         BASIC STAMP/Accessories       15,16,254         Buffers.       38         Clock Chips & Modules.       31,33         Comparators.       37,38         Converters.       34,35,42         PAMP/PUS       193         Dallas Semiconductors.       31         Decoder/Encoder Chips.       34         Dallas Semiconductors.       31         Decoder/Encoder Chips.       34         Development Kits.       13-15	74AHCT-CIVIOS LOGIC (DIP/SOIC)	20,21
74C-TTL CMOS (DIP)         30,31           74F-TTL (DIP/SOIC)         25,26           74HC-CMOS Logic (DIP/SOIC)         22,23           74HCT-CMOS Logic (DIP/SOIC)         24           74LS-TTL (DIP/SOIC)         26-28,240           74LVC-LV CMOS Logic (SOIC/TSSOP)         29           74S-TTL (DIP)         31           8000 Series Intel-Compatible         9           97C/9C Microprocessors         43           9000 Series         31           A/D & D/A Converters         34,35,42           Anachip/ICT PLDS         16           Analog, NTE         49           Atmel Microprocessors         12           Audio         37           BASIC STAMP/Accessories         15,16,254           Buffers         3           Coke Chips & Modules         31,33           Converters         34,35,42           CPUs/MPUs         193           Dallas Semiconductors         31           Development Kits         13           Development Kits         13           Development Signal Converters         12           E-Lab Digital Interface         33           EPROMs and EEPROMs         6,7,43           Flash Memory	74ALS-11L (DIP/SOIC)	29
74F-TTL (DIP/SOIC)         25,26           74HC-CMOS Logic (DIP/SOIC)         22,23           74HCT-CMOS Logic (DIP/SOIC)         24           74LS-TTL (DIP/SOIC)         26-28,240           74LVC-L.V. CMOS Logic (SOIC/TSSOP)         29           74S-TTL (DIP)         31           8000 Series Intel-Compatible         9           87C/9C Microprocessors         43           9000 Series         31           A/D & D/A Converters         34,35,42           Anachip/ICT PLDs         16           Analog, NTE         49           Atmel Microprocessors         12           Audio         37           BASIC STAMP/Accessories         15,16,254           Buffers         38           Clock Chips & Modules         31,33           Converters         34,35,42           CPUs/MPUs         193           Dallas Semiconductors         31           Development Kits         13-15           Digital Signal Converters         12           E-Lab Digital Interface         33           Embedded Processors         193           EPROMs and EEPROMs         6,7,43           Flash Memory         7           GALs         16	74ALVC-L.V. CMOS Logic (SOIC/TSSO	P)29
74HC-CMOS Logic (DIP/SOIC)         22,23           74HCT-CMOS Logic (DIP/SOIC)         26-28,240           74LS-TTL (DIP/SOIC)         26-28,240           74LVC-L.V. CMOS Logic (SOIC/TSSOP)         29           74S-TTL (DIP)         31           8000 Series Intel-Compatible         9           87C/9C Microprocessors         43           9000 Series         31           A/D & D/A Converters         34,35,42           Anachip/ICT PLDs         16           Analog, NTE         49           Atmel Microprocessors         12           Audio         37           BASIC STAMP/Accessories         15,16,254           Buffers         38           Clock Chips & Modules         31,33           Comparators         37,38           Converters         34,35,42           CPUs/MPUs         193           Dallas Semiconductors         31           Decoder/Encoder Chips         34           Development Kits         13-15           Digital Signal Converters         12           E-Lab Digital Interface         33           EPROMs and EEPROMs         6,7,43           Flash Memory         7           GALs         1	74C-TTL, CMOS (DIP)	30,31
74HCT-CMOS Logic (DIP/SOIC)         24           74LS-TTL (DIP/SOIC)         26-28,240           74LVC-L.V. CMOS Logic (SOIC/TSSOP)         29           74S-TTL (DIP)         31           8000 Series Intel-Compatible         9           87C/9C Microprocessors         43           9000 Series         34,35,42           Anachip/ICT PLDS         16           Analog, NTE         49           Atmell Microprocessors         12           Audio         37           BASIC STAMP/Accessories         15,16,254           Buffers         38           Clock Chips & Modules         31,33           Comparators         37,38           Converters         34,35,42           CPUs/MPUs         193           Dallas Semiconductors         31           Decoder/Encoder Chips         34           Development Kits         13-15           Digital Signal Converters         12           E-Lab Digital Interface         33           EPROMs and EEPROMS         6,7,43           Flash Memory         7           GALs         16           Hall Sensors         43           IC Assortments         29-31,37,45,47,240 </td <td>74F-TTL (DIP/SOIC)</td> <td>25,26</td>	74F-TTL (DIP/SOIC)	25,26
74HCT-CMOS Logic (DIP/SOIC)         24           74LS-TTL (DIP/SOIC)         26-28,240           74LVC-L.V. CMOS Logic (SOIC/TSSOP)         29           74S-TTL (DIP)         31           8000 Series Intel-Compatible         9           87C/9C Microprocessors         43           9000 Series         34,35,42           Anachip/ICT PLDS         16           Analog, NTE         49           Atmell Microprocessors         12           Audio         37           BASIC STAMP/Accessories         15,16,254           Buffers         38           Clock Chips & Modules         31,33           Comparators         37,38           Converters         34,35,42           CPUs/MPUs         193           Dallas Semiconductors         31           Decoder/Encoder Chips         34           Development Kits         13-15           Digital Signal Converters         12           E-Lab Digital Interface         33           EPROMs and EEPROMS         6,7,43           Flash Memory         7           GALs         16           Hall Sensors         43           IC Assortments         29-31,37,45,47,240 </td <td>74HC-CMOS Logic (DIP/SOIC)</td> <td>22,23</td>	74HC-CMOS Logic (DIP/SOIC)	22,23
74LS-TTL (DIP/SOIC)         26-28,240           74LVC-L V. CMOS Logic (SOIC/TSSOP)         29           74S-TTL (DIP)         31           8000 Series Intel-Compatible         9           87C/9C Microprocessors         43           9000 Series         31           A/D & D/A Converters         34,35,42           Anachip/ICT PLDS         16           Analog, NTE         49           Atmel Microprocessors         12           Audio         37           BASIC STAMP/Accessories         15,16,254           Buffers         38           Clock Chips & Modules         31,33           Comparators         37,38           Converters         34,35,42           CPUs/MPUs         193           Devoleyment Kits         193           Devoleyment Kits         13-15           Digital Signal Converters         12           E-Lab Digital Interface         33           EPROMs and EEPROMs         6,7,43           Flash Memory         7           GALs         16           Hall Sensors         49           IC Assortments         29-31,37,45,47,240           Interface Series         33,35	74HCT-CMOS Logic (DIP/SOIC)	24
74S-TTL (DIP)         31           8000 Series Intel-Compatible         9           87C/9C Microprocessors         43           9000 Series         31           A/D & D/A Converters         34,35,42           Anachip/ICT PLDs         16           Analog, NTE         49           Atmel Microprocessors         12           Audio         37           BASIC STAMP/Accessories         15,16,254           Buffers         38           Clock Chips & Modules         31,33           Comparators         37,38           Converters         34,35,42           CPUs/MPUs         193           Dallas Semiconductors         31           Decoder/Encoder Chips         34           Development Kits         13-15           Digital Signal Converters         12           E-Lab Digital Interface         33           EPROMs and EEPROMS         6,7,43           Flash Memory         7           GALs         16           Hall Sensors         43           IC Assortments         29-31,37,45,47,240           Interface Series         33,35           Kits         49           Maxim-Type Interface	74LS-TTL (DIP/SOIC)	26-28 240
74S-TTL (DIP)         31           8000 Series Intel-Compatible         9           87C/9C Microprocessors         43           9000 Series         31           A/D & D/A Converters         34,35,42           Anachip/ICT PLDs         16           Analog, NTE         49           Atmel Microprocessors         12           Audio         37           BASIC STAMP/Accessories         15,16,254           Buffers         38           Clock Chips & Modules         31,33           Comparators         37,38           Converters         34,35,42           CPUs/MPUs         193           Dallas Semiconductors         31           Decoder/Encoder Chips         34           Development Kits         13-15           Digital Signal Converters         12           E-Lab Digital Interface         33           EPROMs and EEPROMS         6,7,43           Flash Memory         7           GALs         16           Hall Sensors         43           IC Assortments         29-31,37,45,47,240           Interface Series         33,35           Kits         49           Maxim-Type Interface	74LVC-LV CMOS Logic (SOIC/TSSOP	29
8000 Series Intel-Compatible         .9           87C/9C Microprocessors         .43           9000 Series         .31           A/D & D/A Converters         .34,35,42           Anachip/ICT PLDs         .16           Analog, NTE         .49           Atmel Microprocessors         .12           Audio         .37           BASIC STAMP/Accessories         .15,16,254           Buffers         .38           Clock Chips & Modules         .31,33           Comparators         .37,38           Converters         .34,35,42           CPUs/MPUs         .193           Devolengment Kits         .13           Digital Semiconductors         .34           Development Kits         .13-15           Digital Signal Converters         .12           E-Lab Digital Interface         .33           EPROMs and EEPROMs         .67,43           Flash Memory         .7           GALs         .16           Hall Sensors         .43           LC Assortments         .29-31,37,45,47,240           Interface Series         .33,35           Kits         .45,47           Linear Series         .41,42	749-TTI (DIP)	31
87C/9C Microprocessors         43           9000 Series         31           A/D & D/A Converters         34,35,42           Anachip/ICT PLDS         16           Analog, NTE         49           Atmel Microprocessors         12           Audio         37           BASIC STAMP/Accessories         15,16,254           Buffers         38           Clock Chips & Modules         31,33           Comparators         37,38           Converters         34,35,42           CPUs/MPUs         193           Dallas Semiconductors         31           Decoder/Encoder Chips         34           Development Kits         13-15           Digital Signal Converters         12           E-Lab Digital Interface         33           Embedded Processors         193           EPROMs and EEPROMs         6,7,43           Flash Memory         7           GALs         16           Hall Sensors         43           IC Assortments         29-31,37,45,47,240           Interface Series         33,355           Kits         45,47           Logic Circuits, NTE         49           Maxim-Type Interf	2000 Sorios Intol Compatible	
9000 Series.         31           AD & D/A Converters         34,35,42           Anachip/ICT PLDs         16           Analog, NTE         49           Atmel Microprocessors         12           Audio         37           BASIC STAMP/Accessories         15,16,254           Buffers         38           Clock Chips & Modules         31,33           Converters         34,35,42           CPUs/MPUs         193           Dallas Semiconductors         31           Decoder/Encoder Chips         34           Development Kits         13-15           Digital Signal Converters         12           E-Lab Digital Interface         33           EPROMs and EEPROMS         6,7,43           Flash Memory         7           GALs         16           Hall Sensors         43           IC Assortments         29-31,37,45,47,240           Interface Series         33,35           Kits         45,47           Linear Series         41,42           Logic Circuits, NTE         49           Maxim-Type Interface         32           Memory, DDR/DIMW/SIMM         192           Microcontrollers		
A/D & D/A Converters		
Anachip/ICT PLDs		
Analog, NTE	A/D & D/A Converters	34,35,42
Atmel Microprocessors		
Audio	Analog, NTE	49
BASIC STAMP/Accessories         15,16,254           Buffers         38           Clock Chips & Modules         31,33           Comparators         37,38           Converters         34,35,42           CPUs/MPUs         193           Dallas Semiconductors         31           Decoder/Encoder Chips         34           Development Kits         13-15           Digital Signal Converters         12           E-Lab Digital Interface         33           EPROMS and EEPROMS         6,7,43           Flash Memory         7           GALs         16           Hall Sensors         43           IC Assortments         29-31,37,45,47,240           Interface Series         33,35           Kits         45,47           Linear Series         41,42           Logic Circuits, NTE         49           Maxim-Type Interface         32           Memory, DDR/DIMW/SIMM         192           Microcontrollers         10-16,43           MPU Supervisory         31           NTE Replacement Semiconductors         49-53           Pressure Sensors         43           Op Amps         38-41	Atmel Microprocessors	12
Buffers         38           Clock Chips & Modules         31,33           Comparators         37,38           Converters         34,35,42           CPUs/MPUs         193           Dallas Semiconductors         31           Decoder/Encoder Chips         34           Development Kits         13-15           Digital Signal Converters         12           E-Lab Digital Interface         33           EPROMs and EEPROMS         6,7,43           Flash Memory         7           GALs         16           Hall Sensors         29-31,37,45,47,240           Interface Series         33,35           Kits         45,47           Linear Series         41,42           Logic Circuits, NTE         49           Maxim-Type Interface         32           Memory, DDR/DIMM/SIMM         192           Microcontrollers         10-16,43           MPU Supervisory         31           NTE Replacement Semiconductors         49-53           Pressure Sensors         43           Op Amps         38-41           Ottivisolators         53,54           OTP/PROM         7,31		
Buffers         38           Clock Chips & Modules         31,33           Comparators         37,38           Converters         34,35,42           CPUs/MPUs         193           Dallas Semiconductors         31           Decoder/Encoder Chips         34           Development Kits         13-15           Digital Signal Converters         12           E-Lab Digital Interface         33           EPROMs and EEPROMS         6,7,43           Flash Memory         7           GALs         16           Hall Sensors         29-31,37,45,47,240           Interface Series         33,35           Kits         45,47           Linear Series         41,42           Logic Circuits, NTE         49           Maxim-Type Interface         32           Memory, DDR/DIMM/SIMM         192           Microcontrollers         10-16,43           MPU Supervisory         31           NTE Replacement Semiconductors         49-53           Pressure Sensors         43           Op Amps         38-41           Ottivisolators         53,54           OTP/PROM         7,31	BASIC STAMP/Accessories	15,16,254
Clock Chips & Modules		
Comparators         .37,38           Converters         .34,35,42           CPUs/MPUs         .193           Dallas Semiconductors         .31           Decoder/Encoder Chips         .34           Development Kits         .13-15           Digital Signal Converters         .12           E-Lab Digital Interface         .33           Embedded Processors         .193           EPROMS and EEPROMS         .6,7,43           Flash Memory         .7           GALS         .16           Hall Sensors         .43           IC Assortments         .29-31,37,45,47,240           Interface Series         .33,35           Kits         .45,47           Logic Circuits, NTE         .49           Maxim-Type Interface         .32           Memory, DDR/DIMW/SIMM         .192           Microcontrollers         .10-16,43           MPU Supervisory         .31           NTE Replacement Semiconductors         .49-53           Pressure Sensors         .43           Op Amps         .38-41           OTP/PROM         .7,31	Clock Chips & Modules	31.33
Converters         34,35,42           CPUs/MPUs         193           Dallas Semiconductors         31           Decoder/Encoder Chips         34           Development Kits         13-15           Digital Signal Converters         12           E-Lab Digital Interface         33           Embedded Processors         193           EPROMs and EEPROMS         6,7,43           Flash Memory         7           GALs         16           Hall Sensors         43           IC Assortments         29-31,37,45,47,240           Interface Series         33,35           Kits         45,47           Linear Series         41,42           Logic Circuits, NTE         49           Maxim-Type Interface         32           Memory, DDR/DIMW/SIMM         192           Microcontrollers         10-16,43           MPU Supervisory         31           NTE Replacement Semiconductors         49-53           Pressure Sensors         43           Op Amps         38-41           Ottivisolators         53,54           OTP/PROM         7,31	Comparators	37.38
CPUs/MPUs         193           Dallas Semiconductors         31           Decoder/Encoder Chips         34           Development Kits         13-15           Digital Signal Converters         12           E-Lab Digital Interface         33           Embedded Processors         193           EPROMs and EEPROMS         6,7,43           Flash Memory         7           GALS         16           Hall Sensors         43           IC Assortments         29-31,37,45,47,240           Interface Series         33,35           Kits         45,47           Linear Series         41,42           Logic Circuits, NTE         49           Maxim-Type Interface         32           Memory, DDR/DIMM/SIMM         192           Microcontrollers         10-16,43           MPU Supervisory         31           NTE Replacement Semiconductors         49-53           Pressure Sensors         43           Op Amps         38-41           Ottoisolators         53,54           OTP/PROM         7,31	Converters	34 35 42
Dallas Semiconductors         31           Decoder/Encoder Chips         34           Development Kits         13-15           Digital Signal Converters         12           E-Lab Digital Interface         33           Embedded Processors         193           EPROMS and EEPROMS         6,7,43           Flash Memory         7           GALS         16           Hall Sensors         43           IC Assortments         29-31,37,45,47,240           Interface Series         33,35           Kits         45,47           Linear Series         41,42           Logic Circuits, NTE         49           Maxim-Type Interface         32           Memory, DDR/DIMM/SIMM         192           Microcontrollers         10-16,43           MPU Supervisory         31           NTE Replacement Semiconductors         49-53           Pressure Sensors         43           Op Amps         38-41           OTP/PROM         7,31		
Decoder/Encoder Chips   34		
Development Kits         13-15           Digital Signal Converters         12           E-Lab Digital Interface         33           Embedded Processors         193           EPROMs and EEPROMS         6,7,43           Flash Memory         7           GALS         16           Hall Sensors         43           IC Assortments         29-31,37,45,47,240           Interface Series         33,35           Kits         45,47           Linear Series         41,42           Logic Circuits, NTE         49           Maxim-Type Interface         32           Memory, DDR/DIMM/SIMM         192           Microcontrollers         10-16,43           MPU Supervisory         31           NTE Replacement Semiconductors         49-53           Pressure Sensors         43           Op Amps         38-41           OTP/PROM         7,31		
Digital Signal Converters.         12           E-Lab Digital Interface         33           Embedded Processors.         193           EPROMs and EEPROMS         6,7,43           Flash Memory         7           GALs         16           Hall Sensors         43           IC Assortments         29-31,37,45,47,240           Interface Series         33,35           Kits         45,47           Linear Series         41,42           Logic Circuits, NTE         49           Maxim-Type Interface         32           Memory, DDR/DIMM/SIMM         192           Microcontrollers         10-16,43           MPU Supervisory         31           NTE Replacement Semiconductors         49-53           Pressure Sensors         43           Op Amps         38-41           OTP/PROM         7,31	Dovolopment Kite	
E-Lab Digital Interface	Development Kits	13-13
Embedded Processors.         193           EPROMs and EEPROMs         6,7,43           Flash Memory         .7           GALs         .16           Hall Sensors         .43           IC Assortments         .29-31,37,45,47,240           Interface Series         .33,35           Kits         .45,47           Linear Series         .41,42           Logic Circuits, NTE         .49           Maxim-Type Interface         .32           Memory, DDR/DIMM/SIMM         .192           Microcontrollers         .10-16,43           MPU Supervisory         .31           NTE Replacement Semiconductors         .49-53           Pressure Sensors         .43           Op Amps         .38-41           OTP/PROM         .7,31		
EPROMs and EEPROMs       6,7,43         Flash Memory       7         GALs       16         Hall Sensors       43         IC Assortments       29-31,37,45,47,240         Interface Series       33,35         Kits       45,47         Linear Series       41,42         Logic Circuits, NTE       49         Maxim-Type Interface       32         Memory, DDR/DIMM/SIMM       192         Microcontrollers       10-16,43         MPU Supervisory       31         NTE Replacement Semiconductors       49-53         Pressure Sensors       43         Op Amps       38-41         Optiosolators       53,54         OTP/PROM       7,31		
Flash Memory		
GALs       16         Hall Sensors       43         IC Assortments       29-31,37,45,47,240         Interface Series       33,35         Kits       45,47         Linear Series       41,42         Logic Circuits, NTE       49         Maxim-Type Interface       32         Memory, DDR/DIMM/SIMM       192         Microcontrollers       10-16,43         MPU Supervisory       31         NTE Replacement Semiconductors       49-53         Pressure Sensors       43         Op Amps       38-41         Optiosolators       53,54         OTP/PROM       7,31	EPROMs and EEPROMs	6,7,43
GALs       16         Hall Sensors       43         IC Assortments       29-31,37,45,47,240         Interface Series       33,35         Kits       45,47         Linear Series       41,42         Logic Circuits, NTE       49         Maxim-Type Interface       32         Memory, DDR/DIMM/SIMM       192         Microcontrollers       10-16,43         MPU Supervisory       31         NTE Replacement Semiconductors       49-53         Pressure Sensors       43         Op Amps       38-41         Optiosolators       53,54         OTP/PROM       7,31	Flash Memory	7
IC Assortments		
IC Assortments	Hall Sensors	43
Interface Series		
Kits       .45,47         Linear Series       .41,42         Logic Circuits, NTE       .49         Maxim-Type Interface       .32         Memory, DDR/DIMM/SIMM       .192         Microcontrollers       .10-16,43         MPU Supervisory       .31         NTE Replacement Semiconductors       .49-53         Pressure Sensors       .43         Op Amps       .38-41         Optoisolators       .53,54         OTP/PROM       .7,31		
Linear Series       .41,42         Logic Circuits, NTE       .49         Maxim-Type Interface       .32         Memory, DDR/DIMM/SIMM       .192         Microcontrollers       .10-16,43         MPU Supervisory       .31         NTE Replacement Semiconductors       .49-53         Pressure Sensors       .43         Op Amps       .38-41         Optoisolators       .53,54         OTP/PROM       .7,31		
Logic Circuits, NTE         49           Maxim-Type Interface.         32           Memory, DDR/DIMM/SIMM         192           Microcontrollers.         10-16,43           MPU Supervisory.         31           NTE Replacement Semiconductors         49-53           Pressure Sensors         43           Op Amps.         38-41           Optoisolators         53,54           OTP/PROM         7,31		
Maxim-Type Interface         32           Memory, DDR/DIMM/SIMM         192           Microcontrollers         10-16,43           MPU Supervisory         31           NTE Replacement Semiconductors         49-53           Pressure Sensors         43           Op Amps         38-41           Optoisolators         53,54           OTP/PROM         7,31		
Memory, DDR/DIMM/SIMM.         192           Microcontrollers.         10-16,43           MPU Supervisory.         31           NTE Replacement Semiconductors         49-53           Pressure Sensors.         43           Op Amps.         38-41           Optoisolators.         53,54           OTP/PROM.         7,31		
Microcontrollers         10-16,43           MPU Supervisory         31           NTE Replacement Semiconductors         49-53           Pressure Sensors         43           Op Amps         38-41           Optoisolators         53,54           OTP/PROM         7,31		
MPU Supervisory		
NTE Replacement Semiconductors         49-53           Pressure Sensors         43           Op Amps         38-41           Optoisolators         53,54           OTP/PROM         7,31	Microcontrollers	10-16,43
Pressure Sensors         43           Op Amps         38-41           Optoisolators         53,54           OTP/PROM         7,31		
Pressure Sensors         43           Op Amps         38-41           Optoisolators         53,54           OTP/PROM         7,31	NTE Replacement Semiconductors	49-53
Op Amps       38-41         Optoisolators       53,54         OTP/PROM       7,31		
Optoisolators		
OTP/PROM7,31		
	OTP/PROM	7.31

RS-422/485 Receivers......32,33

Servo & Stepper Motor Controller .....

# Red indicates new products found on these pages.

INTEGRATED CIRCUITS continued ST7 Micro Microprocessors Stepper Motor Drivers/Controllers	
Storage Tubes	233
Temperature Sensors	
Test ClipsUARTs	
Voice Chips	
Voltage Regulators	35-37,42
Voltage Regulators, NTE	
Z8 OTP Microprocessors	
Zilog Flash Microprocessors	
INVERTERSISOCOM OPTOISOLATORS	203
J-K	
JACK SCREWS/HEX NUTSJUMPER LEADS	
KEYBOARDS	
KEYPADS112, KITS, COMPONENTS	136,204
Assortment	37
Capacitors	
CMOS, CD4000 Series	
DiodesGrab Bags	
Hardware, Mounting	
IC Kit, 7400 Series	
IC Kit, 74LS00 Series	
IC Sockets	
LED Hardware LEDs	
Linear ICs	
Potentiometers	
Refills29,30,37,45,47	
Resistors	
Spring Assortment	
Switches	
Transistors	45,240
KITS, ELECTRONICS Audio	252
BASIC Stamp Programming	
Clock	<b>252</b> ,256
Compass Module	
Educational Electronic Locks	
Environmental	
Fiber Optics	252
Light bulb	
Liquid Level, Distance and Light	252,253
Motor Controller	
PC Photo Etch	241
PCB Design Kit	
Power SupplyRadar	253
Relay Controller	
	253, <mark>256</mark>
Solar	
Sound Generation and Detection	
Speech and Recognition Test & Measurement	
Timers	
VellemanKNIFE SET	
KNOBS	
L-M	
LAMPS AND ACCESSORIES	
Fluorescent	62
Incandescent	62,63
Magnifier/Desktop	
NeonPanel Mount	
Panel Mount	
LAPTOP PRODUCTS	
Cables	
Cards	
Mobile Computing91,	130,199
Accessories	251
Diodes	
Pointer	
	189,205

LEDs Accessories/Hardware	61 240
Cable Assemblies	
Clusters	62
Displays	59-61
High OutputHLMP Series	58,59
Infrared	
Kits/Grab Bags	61,240
Medium	
NTE	
Panel Indicators	
Standard Output Tester	
LENSES (Camera)	207
LIGHT METER, DIGITAL	220
LINE SEPARATOR, AC	
LOGIC PROBE AND PULSER	
MACINTOSH PRODUCTS MAGNETIZER/DEMAGNETIZER	90,184,205
MAGNIFYING GLASSES/LAMPS	239
MARKERS	
MEMORY	
Batteries	
CapacitorsDDR	
DIMM	192
EDO	192
SDR	192
SIMM	192
METERS Benchtop	212 214
Clamp	13,214 213
DMM2	
Environmental	
LCR	
Pocket	211,212
Temperature/Time MICE AND ACCESS.	
MICROCONTROLLERS	
MICROPHONE	
Cartridge/Condenser	
PC Desktop MICROPROCESSOR CRYSTALS	195,257
MICROPROCESSOR CRYSTALS	
MODEMS/FAX	200
MODEMS/FAX MODULAR JACKS & ADAPTERS	92, <mark>93</mark> ,115
MODULATORS	208
MACHITOD OTAND/DD AGVETO	
MONITOR STAND/BRACKETS	209
MONITORS	209
MONITORS MOTHERBOARDS	209 205,206 192
MONITORS	209 205,206 192 253
MONITORS	205,206 205,206 192 253
MONITORS. MOTHERBOARDS. MOTION DETECTOR. MOTOR CONTROLLERS. MOTORS DC.	
MONITORS	
MONITORS. MOTHERBOARDS. MOTION DETECTOR. MOTOR CONTROLLERS. MOTORS DC	205,206 205,206 253 124,253 125,126 126-128
MONITORS. MOTHERBOARDS. MOTION DETECTOR MOTOR CONTROLLERS. MOTORS DC. Geared Servo/Radio Controlled. Shaft Couplers	
MONITORS. MOTHERBOARDS. MOTION DETECTOR. MOTOR CONTROLLERS. MOTORS DC	
MONITORS. MOTHERBOARDS MOTION DETECTOR. MOTOR CONTROLLERS MOTORS DC	205,206 205,206 253 253 124,253 126-126 255 256 122,123 127,126
MONITORS. MOTHERBOARDS. MOTION DETECTOR. MOTOR CONTROLLERS. MOTORS DC. Geared. Servo/Radio Controlled. Shaft Couplers. Stepper Stepper Controllers. Vibrating MOUSE PAD.	205,206 205,206 205,206 253 124,253 125,126 126-128 255 256 256 122,123 253 253 254 254 254 255 255 256 256 256 256 256 256 257 257 257 257 257 257 257 257 257 257
MONITORS. MOTHERBOARDS MOTION DETECTOR MOTOR CONTROLLERS. MOTORS DC. Geared. Servo/Radio Controlled. Shaft Couplers. Stepper Stepper Controllers. Vibrating. MOUSE PAD. MULTIMEDIA	205, 206, 205, 206, 206, 206, 206, 206, 206, 206, 206
MONITORS. MOTHERBOARDS. MOTION DETECTOR. MOTOR CONTROLLERS. MOTORS DC. Geared. Servo/Radio Controlled. Shaft Couplers. Stepper Stepper Controllers. Vibrating MOUSE PAD.	205,206 205,206 253 124,253 125,126 126-126 256 122,123 253 127,128 204,257 195,208
MONITORS. MOTHERBOARDS MOTION DETECTOR MOTOR CONTROLLERS MOTORS DC	205,206 205,206 199 253 124,253 126,126 126-128 255 256 252 253 253 204,257 195,206 220,221 210-214
MONITORS. MOTHERBOARDS MOTHERBOARDS MOTION DETECTOR MOTOR CONTROLLERS MOTORS DC Geared. Servo/Radio Controlled. Shaft Couplers. Stepper Stepper Controllers. Vibrating. MOUSE PAD MULTIMEDIA MULTIMETER TEST PROBES. MUSCLE WIRE	205,206 205,206 199 253 124,253 126,126 126-128 255 256 252 253 253 204,257 195,206 220,221 210-214
MONITORS. MOTHERBOARDS. MOTHOR DETECTOR. MOTOR CONTROLLERS. MOTORS DC. Geared. Servo/Radio Controlled. Shaft Couplers. Stepper. Stepper Controllers. Vibrating. MOUSE PAD. MULTIMETIAN. MULTIMETER TEST PROBES.	205,206 205,206 199 253 124,253 126,126 126-128 255 256 252 253 253 204,257 195,206 220,221 210-214
MONITORS. MOTHERBOARDS MOTHERBOARDS MOTION DETECTOR. MOTOR CONTROLLERS. MOTORS DC. Geared Servo/Radio Controlled. Shaft Couplers Stepper Stepper Controllers. Vibrating MOUSE PAD MULTIMEDIA MULTIMETER TEST PROBES. MUSCLE WIRE.	205, 206, 206, 206, 206, 206, 206, 206, 206
MONITORS. MOTHERBOARDS MOTHERBOARDS MOTION DETECTOR MOTOR CONTROLLERS. MOTORS DC. Geared. Servo/Radio Controlled. Shaft Couplers. Stepper Stepper Controllers. Vibrating. MOUSE PAD. MULTIMEDIA MULTIMETER TEST PROBES. MULTIMETERS. MUSCLE WIRE  N-0  NETWORK PRODUCTS. 92,93,119	205, 206, 205, 206, 198, 200, 205, 206, 198, 200, 200, 200, 200, 200, 200, 200, 20
MONITORS. MOTHERBOARDS MOTHERBOARDS MOTION DETECTOR. MOTOR CONTROLLERS. MOTORS DC. Geared Servo/Radio Controlled. Shaft Couplers. Stepper Stepper Controllers. Vibrating. MOUSE PAD MULTIMEDIA MULTIMETER TEST PROBES. MUSCLE WIRE  N-0  NETWORK PRODUCTS	205, 206, 205, 206, 205, 206, 205, 206, 206, 206, 206, 206, 206, 206, 206
MONITORS. MOTHERBOARDS MOTHERBOARDS MOTION DETECTOR MOTOR CONTROLLERS. MOTORS DC. Geared Servo/Radio Controlled. Shaft Couplers. Stepper Stepper Controllers. Vibrating MOUSE PAD. MULTIMEDIA. MULTIMETER TEST PROBES. MULTIMETERS. MUSCLE WIRE  N-O  NETWORK PRODUCTS	205, 206, 206, 206, 206, 206, 206, 206, 206
MONITORS. MOTHERBOARDS. MOTHERBOARDS. MOTION DETECTOR. MOTOR CONTROLLERS. MOTORS DC. Geared. Servo/Radio Controlled. Shaft Couplers. Stepper. Stepper Controllers. Vibrating. MOUSE PAD. MULTIMETIAN. MULTIMETER TEST PROBES. MUSCLE WIRE.  N-O  NETWORK PRODUCTS	205, 206, 198, 200, 205 205, 206 205, 206 205, 206 205, 206 205, 206 205, 207 207, 122 207, 122 207, 122 207, 125 207, 126 207, 126 207, 126 207, 127 207, 126 207, 127 207, 126 207, 127 207, 126 207, 127 207, 126 207, 127 207, 1
MONITORS. MOTHERBOARDS. MOTHERBOARDS. MOTION DETECTOR. MOTOR CONTROLLERS. MOTORS DC. Geared. Servo/Radio Controlled. Shaft Couplers. Stepper. Stepper Controllers. Vibrating. MOUSE PAD. MULTIMETIAN. MULTIMETIAN. MULTIMETER TEST PROBES. MUSCLE WIRE.  N-O  NETWORK PRODUCTS. OPTICAL SWITCHES. OPTICAL SWITCHES. OPTOISOLATORS. ORDER INFORMATION AND FORM.	205, 206, 198, 200, 205, 206, 198, 200, 205, 206, 206, 206, 206, 206, 206, 206, 206
MONITORS. MOTHERBOARDS MOTHERBOARDS MOTION DETECTOR MOTOR CONTROLLERS. MOTORS DC. Geared. Servo/Radio Controlled. Shaft Couplers. Stepper Stepper Controllers. Vibrating. MOUSE PAD. MULTIMEDIA MULTIMETER TEST PROBES. MULTIMETERS. MUSCLE WIRE  N-O  NETWORK PRODUCTS	205,206 205,206 205,206 124,253 124,253 125,126 126-128 256 122,123 204,257 195,208 220,221 210-214 256 36,198,200,202 101,144 564 58,255 28,258
MONITORS. MOTHERBOARDS. MOTHERBOARDS. MOTION DETECTOR. MOTOR CONTROLLERS. MOTORS DC. Geared. Servo/Radio Controlled. Shaft Couplers. Stepper. Stepper Controllers. Vibrating. MOUSE PAD. MULTIMETIAN. MULTIMETIAN. MULTIMETER TEST PROBES. MUSCLE WIRE.  N-O  NETWORK PRODUCTS. OPTICAL SWITCHES. OPTICAL SWITCHES. OPTOISOLATORS. ORDER INFORMATION AND FORM.	205,206 205,206 205,206 124,253 124,253 125,126 126-128 255 122,123 255 127,128 204,257 200,202 210-214 564 563,58 53,54 2258,255 8.0-82 215-218
MONITORS. MOTHERBOARDS MOTHERBOARDS MOTION DETECTOR. MOTOR CONTROLLERS. MOTORS DC. Geared. Servo/Radio Controlled. Shaft Couplers. Stepper Stepper Controllers. Vibrating. MOUSE PAD MULTIMEDIA MULTIMETER TEST PROBES. MUSCLE WIRE.  N-O  NETWORK PRODUCTS	205,206 205,206 205,206 124,253 124,253 125,126 126-128 255 122,123 255 127,128 204,257 200,202 210-214 564 563,58 53,54 2258,255 8.0-82 215-218
MONITORS. MOTHERBOARDS. MOTHERBOARDS. MOTION DETECTOR. MOTOR CONTROLLERS. MOTORS DC. Geared. Servo/Radio Controlled. Shaft Couplers. Stepper Stepper Controllers. Vibrating. MOUSE PAD. MULTIMEDIA. MULTIMETER TEST PROBES. MULTIMETERS. MUSCLE WIRE.  N-O  NETWORK PRODUCTS. 0PTICAL SWITCHES. OPTICAL SWITCHES. OPTOLECTRONICS OPTOISOLATORS. ORDER INFORMATION AND FORM OSCILLATORS/CRYSTALS. OSCILLATORS/CRYSTALS. OSCILLOSCOPES/ACCESSORIES.	205,206 205,206 205,206 124,253 124,253 125,126 126-128 255 122,123 255 127,128 204,257 200,202 210-214 564 563,58 53,54 2258,255 8.0-82 215-218
MONITORS. MOTHERBOARDS. MOTHERBOARDS. MOTION DETECTOR. MOTOR CONTROLLERS. MOTORS DC. Geared. Servo/Radio Controlled. Shaft Couplers. Stepper. Stepper Controllers. Vibrating. MOUSE PAD. MULTIMETIAN. MULTIMETER TEST PROBES. MUSCLE WIRE.  N-O  NETWORK PRODUCTS	205,206 205,206 205,206 124,253 124,253 125,126 126-128 256 127,128 204,257 195,206 220,221 210-214 256 266,198,200,202 101,144 54 54 54 55,54 258,258 80-82 201-218
MONITORS. MOTHERBOARDS MOTHERBOARDS MOTION DETECTOR. MOTOR CONTROLLERS. MOTORS DC. Geared. Servo/Radio Controlled. Shaft Couplers. Stepper Stepper Controllers. Vibrating. MOUSE PAD MULTIMEDIA MULTIMETER TEST PROBES. MUSCLE WIRE.  N-O  NETWORK PRODUCTS	205, 206, 205, 206, 208, 208, 208, 208, 208, 208, 208, 208
MONITORS. MOTHERBOARDS. MOTHERBOARDS. MOTION DETECTOR. MOTOR CONTROLLERS. MOTORS DC. Geared. Servo/Radio Controlled. Shaft Couplers. Stepper Controllers. Vibrating. MOUSE PAD. MULTIMETER TEST PROBES. MULTIMETERS. MUSCLE WIRE.  N-O  NETWORK PRODUCTS	205,206 205,206 205,206 124,253 124,253 125,126 126-128 255 127,128 204,257 195,206 220,221 210-214 256 26,198,200,202 101,144 554 554 258,258 80-82 215-218 113,237,238
MONITORS. MOTHERBOARDS MOTHERBOARDS MOTION DETECTOR. MOTOR CONTROLLERS. MOTORS DC. Geared Servo/Radio Controlled. Shaft Couplers. Stepper Stepper Controllers. Vibrating. MOUSE PAD. MULTIMEDIA MULTIMETER TEST PROBES. MUSCLE WIRE  N-0  NETWORK PRODUCTS 92,93,11 NUTS. OPTICAL SWITCHES OPTOELECTRONICS. OPTOISOLATORS. ORDER INFORMATION AND FORM OSCILLATORS/CRYSTALS. OSCILLOSCOPES/ACCESSORIES. PALS.  P-R  PANAVISE. PANAVISE. PANAL METERS. PATCH CORDS PATCH CORDS PATCH CORDS PATCH CORDS PATCH CORDS	205, 206, 205, 206, 208, 208, 208, 208, 208, 208, 208, 208
MONITORS. MOTHERBOARDS MOTHERBOARDS MOTION DETECTOR. MOTOR CONTROLLERS. MOTORS DC. Geared Servo/Radio Controlled. Shaft Couplers Stepper Stepper Controllers. Vibrating MOUSE PAD. MULTIMEDIA. MULTIMETER TEST PROBES. MULTIMETERS. MUSCLE WIRE  N-O  NETWORK PRODUCTS	205,206 205,206 205,206 124,253 124,253 125,126 126-126 126-126 127,128 204,257 195,208 220,221 210-214 255 36,198,200,202 101,144 554 258,255 80-83 215-218 116
MONITORS. MOTHERBOARDS. MOTHERBOARDS. MOTION DETECTOR. MOTOR CONTROLLERS. MOTORS DC. Geared. Servo/Radio Controlled. Shaft Couplers. Stepper. Stepper Controllers. Vibrating. MOUSE PAD. MULTIMETIAN. MULTIMETER TEST PROBES. MULTIMETERS. MUSCLE WIRE.  N-O  NETWORK PRODUCTS. OPTOIGAL SWITCHES. OPTOIGLECTRONICS. OPTOISOLATORS. ORDER INFORMATION AND FORM. OSCILLATORS/CRYSTALS. OSCILLATORS/CRYSTALS. OSCILLATORS/CRYSTALS. PALS.  PANEL METERS. PANEL METERS. PANEL METERS. PANEL METERS. PATCH CORDS. PATCH CORDS. PATCH PANELS. PC BOARDS/EXTENDERS. 22 PC PHOTO ETCH.	205, 206, 205, 206, 206, 198, 200, 202, 202, 220, 2210, 210, 144, 252, 258, 258, 258, 258, 258, 258, 258
MONITORS. MOTHERBOARDS MOTHERBOARDS MOTION DETECTOR. MOTOR CONTROLLERS. MOTORS DC. Geared Servo/Radio Controlled. Shaft Couplers Stepper Stepper Controllers. Vibrating MOUSE PAD MULTIMEDIA MULTIMETER TEST PROBES. MULTIMETERS. MUSCLE WIRE  N-O  NETWORK PRODUCTS	205, 206, 205, 206, 206, 207, 207, 207, 207, 207, 207, 207, 207
MONITORS. MOTHERBOARDS. MOTHERBOARDS. MOTION DETECTOR. MOTOR CONTROLLERS. MOTORS DC. Geared. Servo/Radio Controlled. Shaft Couplers. Stepper Controllers. Vibrating. MOUSE PAD. MULTIMETER TEST PROBES. MULTIMETERS. MUSCLE WIRE.  N-O  NETWORK PRODUCTS	205, 206, 206, 207, 208, 208, 208, 208, 208, 208, 208, 208
MONITORS. MOTHERBOARDS MOTHERBOARDS MOTION DETECTOR. MOTOR CONTROLLERS. MOTORS DC. Geared Servo/Radio Controlled. Shaft Couplers Stepper Stepper Controllers. Vibrating MOUSE PAD MULTIMEDIA MULTIMETER TEST PROBES. MULTIMETERS. MUSCLE WIRE  N-O  NETWORK PRODUCTS	205, 206, 198, 200, 202, 201, 214, 255, 266, 198, 200, 202, 200, 221, 210, 214, 255, 256, 256, 256, 256, 256, 256, 256

PHOTO TRANSISTORS	53,5
PHOTOCELLS	6
PIC MICROCONTROLLERS	10-12,16,24
PIN INSERT/EXTRACT TOOLS	10
PLDs	1
PLUGS	
Banana	220,22
DIN, IDC, DIP	98,112,11
Power Entry	172,18
Power, Low Power	96,12
RCA	98,9
POTENTIOMETERS	
Adjustment Tool	23
Audio Taper	73,7
Bourns	
Cermet	
Clarostat	
Digital	4
Kits/Grab Bags	83,24
Linear Taper	73-7
Trimmer	75-7
POWER BASES/STRIPS	18
POWER CONNECTORS/PINS	
AC Plug	172, <mark>18</mark>
AT/ATX Motherboard	10
Disk Drive, Power Supply	
Entry Filter	18
Kits	
Pins	105,106,10
Plugs/Receptacles	10
POWER CONVERTERS	
POWER CORDS/ADAPTERS POWER ENTRY & LINE FILTERS	149, <mark>180-</mark> 18
POWER ENTRY & LINE FILTERS	18
Entry Filter	18
POWÉR INVERTERS	
POWER JACKS/PLUGS	
POWER PINS	105,106,10
POWER PROTECTION	20
POWER SUPPLIES	
AC Variable Transformers	17
AC/DC150-155,	156-163,168-17
Benchtop	214,21
Breadboard	
Computer	
DIN-Rail	16
Enclosed	.155-160,161-16
Kits	25
KitsLinear	25
KitsLinear	25 .164,168,169,17 150,151,17
Kits Linear Low Leakage	25 .164,168,169,17 150,151,17 151,17
KitsLinearLow Leakage	25 .164,168,169,17 150,151,17 151,17
Kits Linear	25. .164,168,169,17 150,151,17 151,17 150-15 .164,168-170,17 168-17
Kits. Linear. Low Leakage. Medical. Open Frame. Switching	
Kits Linear Low Leakage Medical Open Frame Switching150-155,156-160,161- Table-Top Unregulated Wall Adapters	
Kits Linear Low Leakage Medical Open Frame Switching	
Kits. Linear	
Kits Linear Low Leakage Medical Open Frame Switching	25 164,168,169,17 150,151,17 150,15 150-15 164,168-170,17 168-17 169,172-17 
Kits Linear Low Leakage Medical Open Frame Switching	25 164,168,169,17 150,151,17 150,15 150-15 164,168-170,17 168-17 169,172-17 
Kits. Linear Low Leakage Medical Open Frame Switching	
Kits. Linear	
Kits Linear Low Leakage Medical Open Frame Switching	25 .164,168,169,17 .150,151,17
Kits. Linear Low Leakage. Medical. Open Frame. Switching	
Kits. Linear Low Leakage Medical Open Frame Switching	
Kits Linear Low Leakage Medical Open Frame Switching	25. 164,168,169,17 .150,151,17
Kits Linear Low Leakage Medical Open Frame Switching	
Kits. Linear	
Kits Linear Linear Low Leakage Medical Open Frame Switching	25, 164,168,169,17
Kits Linear Low Leakage Medical Open Frame Switching	
Kits. Linear	
Kits Linear Low Leakage Medical Open Frame Switching	25, 164,168,169,17
Kits Linear Low Leakage Medical Open Frame Switching	25, 164,168,169,17
Kits. Linear Low Leakage Medical Open Frame Switching	
Kits Linear Low Leakage Medical Open Frame Switching	
Kits. Linear Low Leakage. Medical. Open Frame. Switching	
Kits Linear Low Leakage Medical Open Frame Switching	
Kits Linear Low Leakage Medical Open Frame Switching	25. 164,168,169,17 150,151,17 150,151,17 151,17 164,168-170,17 164,168-170,17 169,172-17 22 178,17 14 241,24 201,20 198,20 200,216-218,22 247-24 242,245-24 242,245-24 14 23 29 190,191,194,26 138,13
Kits Linear Low Leakage Medical Open Frame Switching	25. 164,168,169,17 150,151,17 150,151,17 151,17 164,168-170,17 164,168-170,17 169,172-17 22 178,17 14 241,24 201,20 198,20 200,216-218,22 247-24 242,245-24 242,245-24 14 23 29 190,191,194,26 138,13
Kits Linear Low Leakage Medical Open Frame Switching	25 164,168,169,17 150,151,17 150,151,17 150,15 164,168-170,17 164,168-170,17 169,172-17 169,172-17 14 201,20 198,20 200,216-218,22 247-24 242,245-24 242,245-24 199,191,194,26 7,19 97-9 48,5 139,14 137-14 138,13 138,13
Kits Linear Low Leakage Medical Open Frame Switching	25 164,168,169,17 150,151,17 150,151,17 150,15 164,168-170,17 168-17 169,172-17 22 178,17 14 241,24 201,20 198,20 200,216-218,22 247-24 242,245-24 242,245-24 14 23 23 2190,191,194,26 39,50 139,14 137-14 138,13
Kits. Linear Low Leakage. Medical. Open Frame. Switching	
Kits Linear Low Leakage Medical Open Frame Switching	25 164,168,169,17 150,151,17 150,151,17 150,15 164,168-170,17 164,168-170,17 169,172-17 22 178,17 14 241,24 201,20 200,216-218,22 247-24 242,245-24 242,245-24 190,191,194,26 7,19 97-9 48,5 139,14 138,13 138,13 138,13 138,13
Kits Linear Low Leakage Medical Open Frame Switching	25 164,168,169,17 150,151,17 150,151,17 150,15 164,168-170,17 164,168-170,17 169,172-17 22 178,17 14 241,24 201,20 200,216-218,22 247-24 242,245-24 242,245-24 190,191,194,26 7,19 97-9 48,5 139,14 138,13 138,13 138,13 138,13
Kits. Linear Low Leakage Medical Open Frame Switching	
Kits. Linear	25 164,168,169,17 150,151,17 150,151,17 150,151,17 164,168-170,17 169,172-17 169,172-17 14 201,20 200,216-218,22 247-24 242,245-24 242,245-24 14 23 20 198,00 198,10 139,14 138,13 138,13 138,13 138,13 137,14 138,13 77
Kits Linear Low Leakage Medical Open Frame Switching	25 164,168,169,17 150,151,17 150,151,17 150,15 164,168-170,17 168-17 169,172-17 22 178,17 14 241,24 201,20 200,216-218,22 247-24 242,245-24 242,245-24 144 23 22,190,191,194,26 3,138,13 138,13 138,13 138,13 138,13 138,13 137,14
Kits. Linear Low Leakage Medical Open Frame Switching	25. 164,168,169,17 150,151,17 150,151,17 150,151,17 164,168-170,17 164,168-170,17 169,172-17 22 178,17 241,24 241,24 241,24 241,24 242,245-24 242,245-24 242,245-24 114 23 23 29 198,10 139,14 137-14 138,13
Kits. Linear Linear Low Leakage Medical. Open Frame Switching	25 164,168,169,17 150,151,17 150,151,17 150,151,17 164,168-170,17 164,168-170,17 169,172-17 169,172-17 14 201,20 198,20 200,216-218,22 247-24 242,245-24 242,245-24 14 23 22 190,191,194,26 31 31,13 138,13 138,13 138,13 138,13 137,14 138,13 137,14 138,13 137,14 138,13 17,18 17,18 17,18 18,24 17,18 18,24 17,18 18,24 17,18 18,24 17,18
Kits. Linear Linear Low Leakage Medical. Open Frame Switching	25 164,168,169,17 150,151,17 150,151,17 150,151,17 164,168-170,17 164,168-170,17 169,172-17 169,172-17 14 201,20 198,20 200,216-218,22 247-24 242,245-24 242,245-24 14 23 22 190,191,194,26 31 31,13 138,13 138,13 138,13 138,13 137,14 138,13 137,14 138,13 137,14 138,13 17,18 17,18 17,18 18,24 17,18 18,24 17,18 18,24 17,18
Kits. Linear Low Leakage. Medical. Open Frame. Switching	25 164,168,169,17 150,151,17 150,151,17 150,151,17 164,168-170,17 169,172-17 22 178,17 201,20 198,20 200,216-218,22 247-24 242,245-24 14 23 21,20 198,20 20,216-318,22 21,20 318,20 318,20 318,20 318,20 318,30 318,13 318,13 318,13 318,13 318,13 318,13 318,13 318,13 318,13 318,13 318,13 318,13 318,13 318,13 317,14 318,13 317,14 318,13 317,14 318,13 317,14 318,13 317,14 318,13 317,14 318,13 317,14 318,13 317,14 318,13 317,14 318,13 317,14 318,13 317,14 318,13 317,14 318,13 317,14 318,13 317,14 318,13 317,14
Kits. Linear Linear Low Leakage Medical. Open Frame Switching	25 164,168,169,17 150,151,17 150,151,17 150,151,17 164,168-170,17 164,168-170,17 169,172-17 169,172-17 14 201,20 200,216-218,22 247-24 242,245-24 242,245-24 14 23 20 198,00 198,10 139,14 131,13 138,13 138,13 138,13 138,13 137,14 138,13 137,14 138,13 137,14 138,13 137,14 138,13 137,14 138,13 137,14 138,13 137,14 138,13 177,18 171,8 183,24 171,7 171,8 183,24 171,7 171,8 183,24 171,7 171,8 183,24 171,7 171,8
Kits. Linear Low Leakage. Medical. Open Frame. Switching	25 164,168,169,17 150,151,17 150,151,17 150,151,17 164,168-170,17 164,168-170,17 169,172-17 22 178,17 14 221,24 201,20 200,216-218,22 247-24 242,245-24 14 23 222 190,191,194,26 38,34 138,13 138,13 138,13 138,13 138,13 138,13 137,14 138,13



LED HARDWARE ......

# S SATELLITE TV Coax CATV..... Connectors......96 SCREWS......101,144,190 SENSORS Hall Effect..... Light......61 Liquid 141 Pressure......141 Proximity ......141 Ultrasonic ......141 Vibration 141 SERVOS/CONTROLLERS 124,253,255 SHAFT COUPLERS 256 SHORTING BLOCKS ......110 SIMMS Adapters ......108,109 Assortment, Kits/Grab Bags ......108,240 DIN ......113 .....110,111 Header Plugs ......112 ......53,109 Machine Tooled......110,111 Oscillators ......82,108 Slim Line 111 Sockets 138,139 Solder Tail......110,111 Wire Wrap ......111 Wire Wrap ID Labels ......111 OFTWARE PIC Programmer ......247 Reference 10,195,200 SOLAR PRODUCTS 250 Chargers .251 Kits .250,253,256 Lights 250 Miscellaneous 250,251 Modules......250 SOLDER/DESOLDERING EQUIPMENT Accessories.......233,235,236,238 Pump..... Solder ......233,236,238 Sponges 235 Stations/Irons/Kits 233-238 Tools 237 SOLDERLESS BREADBOARDS 242,246 SOLENOIDS 128 SOLENOIDS 128 SPACERS......101,144,145,240,245 SPEAKERS 142,143,195 STANDOFFS 144,145,240,245 STATIC CONTROL.....233 Flash Memory......199 Hard Drives 193 STORAGE, CABINETS 229,244 STRAIN RELIEF BUSHINGS 94 SUBSTITUTION BOXES 243 Cases, Storage......244 PLCC Sockets ......111 Resistors ......72 Transistors 43,44,45 SURGE PROTECTORS 202 SWITCH BOXES/CABLES 90,201 SWITCHES AT Computer ..... Binary......129,135

· · · · · · · · · · · · · · · · · · ·	
0 15	400
General Purpose	129
Keylock	129
Kit/Grab Bag	
Magnetic Reed	135
Optical	
Pushbutton	129-131.135
Rocker	
Rotary	135,136
Sensor	
Slide	131
Snap Action	120
Tactile	136
Thumbwheel	
Toggle	132,133
T 11	
T-U	
1 0	
TABLE-TOP POWER SUPPLIES	151,168-172
TAPE	
TAPE MEASURE	231
TECH SPRAY CHEMICALS & ACCES.	241
TELEPHONE ACCESSORIES	
TELEPHONE CONNECTORS	92 93 121 200
TEMPERATURE/TIME METERS	
	213,219
TERMINALS	
	105 110
Blocks	
DIN Rail Blocks	119
European	110
Solderless	
Speaker	
Twist On	121
Wire Wrap	
TEOT EOU ID 15 IT	
TEST EQUIPMENT	
Anemometer	210
Benchtop	214
Benchtop Power Supplies	
Cable/Interface	200.202.216.222
Current Clamp Meter	
Environmental	219.220
Fluke	211,213,216
Frequency, Counter/Generator	217-220
IC Test Clips	
Kits	253
Leads/Probes200,212	242 246 240 220 222
LED	61
Light Meter, Digital	
Line Separator	213
Lasia Daaba	047.040
Logic Probe	
Multimeter, Analog/Digital	211-214,220
Multimeter, Analog/Digital Multimeter, Benchtop	211-214,220
Multimeter, Analog/Digital Multimeter, Benchtop	211-214,220
Multimeter, Analog/Digital Multimeter, Benchtop Oscilloscopes	211-214,220 214 215-217
Multimeter, Analog/Digital Multimeter, Benchtop Oscilloscopes Probes	211-214,220 214 215-217 212,216-218,221
Multimeter, Analog/Digital Multimeter, Benchtop Oscilloscopes Probes	211-214,220 214 215-217 212,216-218,221
Multimeter, Analog/Digital	211-214,220 214 215-217 212,216-218,221 248,249
Multimeter, Analog/Digital	211-214,220 214 215-217 212,216-218,221 248,249 213
Multimeter, Analog/Digital	211-214,220 214 215-217 212,216-218,221 248,249 213
Multimeter, Analog/Digital Multimeter, Benchtop Oscilloscopes Probes Programmers/Testers Shunt Signal Generator/Analyzer.	211-214,220 214 215-217 212,216-218,221 248,249 213
Multimeter, Analog/Digital	211-214,220 214 215-217 212,216-218,221 248,249 213 218 218
Multimeter, Analog/Digital	211-214,220 214 215-217 212,216-218,221 248,249 213 218 218
Multimeter, Analog/Digital	211-214,220 214 215-217 212,216-218,221 248,249 213 218 216 226
Multimeter, Analog/Digital Multimeter, Benchtop Oscilloscopes Probes	
Multimeter, Analog/Digital Multimeter, Benchtop Oscilloscopes Probes	
Multimeter, Analog/Digital	
Multimeter, Analog/Digital Multimeter, Benchtop Oscilloscopes Probes	
Multimeter, Analog/Digital Multimeter, Benchtop Oscilloscopes Probes	
Multimeter, Analog/Digital Multimeter, Benchtop Oscilloscopes Probes	
Multimeter, Analog/Digital Multimeter, Benchtop Oscilloscopes Probes	
Multimeter, Analog/Digital Multimeter, Benchtop Oscilloscopes Probes	
Multimeter, Analog/Digital Multimeter, Benchtop Oscilloscopes Probes	
Multimeter, Analog/Digital Multimeter, Benchtop Oscilloscopes Probes	
Multimeter, Analog/Digital Multimeter, Benchtop Oscilloscopes Probes	
Multimeter, Analog/Digital Multimeter, Benchtop Oscilloscopes Probes	
Multimeter, Analog/Digital Multimeter, Benchtop Oscilloscopes Probes	
Multimeter, Analog/Digital Multimeter, Benchtop Oscilloscopes Probes Programmers/Testers Shunt Signal Generator/Analyzer Software Substitution Boxes. Thermometers Tone/Telephone Voltage/Metal Detectors TEST LEADS/PROBES/CLIPS25 THERMISTORS, NTC. THERMODELECTRIC COOLERS/CHIPS THERMOMETERS TIE MOUNTS TIME/TEMPERATURE METERS TOOL KITS	
Multimeter, Analog/Digital Multimeter, Benchtop Oscilloscopes Probes Programmers/Testers Shunt Signal Generator/Analyzer Software Substitution Boxes. Thermometers Tone/Telephone Voltage/Metal Detectors TEST LEADS/PROBES/CLIPS25 THERMISTORS, NTC. THERMODELECTRIC COOLERS/CHIPS THERMOMETERS TIE MOUNTS TIME/TEMPERATURE METERS TOOL KITS	
Multimeter, Analog/Digital Multimeter, Benchtop Oscilloscopes Probes	
Multimeter, Analog/Digital Multimeter, Benchtop Oscilloscopes Probes Programmers/Testers Shunt Signal Generator/Analyzer Software Substitution Boxes. Thermometers Tone/Telephone Voltage/Metal Detectors TEST LEADS/PROBES/CLIPS25 THERMISTORS, NTC. THERMODELECTRIC COOLERS/CHIPS THERMOMETERS TIE MOUNTS TIME/TEMPERATURE METERS TOOL KITS	
Multimeter, Analog/Digital Multimeter, Benchtop Oscilloscopes Probes	
Multimeter, Analog/Digital Multimeter, Benchtop Oscilloscopes Probes Programmers/Testers Shunt Signal Generator/Analyzer Software Substitution Boxes. Thermometers Tone/Telephone Voltage/Metal Detectors TEST LEADS/PROBES/CLIPS25 THERMISTORS, NTC THERMODELECTRIC COOLERS/CHIPS THERMOMETERS TIE MOUNTS TIME/TEMPERATURE METERS TOOL KITS TOOLS Anti-Static Bits (Rotary)	
Multimeter, Analog/Digital Multimeter, Benchtop Oscilloscopes Probes	
Multimeter, Analog/Digital Multimeter, Benchtop Oscilloscopes Probes	
Multimeter, Analog/Digital Multimeter, Benchtop Oscilloscopes Probes Programmers/Testers Shunt Signal Generator/Analyzer Software Substitution Boxes Thermometers Tone/Telephone Voltage/Metal Detectors TEST LEADS/PROBES/CLIPS TEST LEADS/PROBES/CLIPS THERMOSTORS, NTC THERMOBETERS TIE MOUNTS TIME/TEMPERATURE METERS TOOL KITS TOOLS Anti-Static Bits (Rotary) Calipers Cases	
Multimeter, Analog/Digital Multimeter, Benchtop Oscilloscopes Probes	
Multimeter, Analog/Digital Multimeter, Benchtop Oscilloscopes Probes	
Multimeter, Analog/Digital Multimeter, Benchtop Oscilloscopes Probes	
Multimeter, Analog/Digital Multimeter, Benchtop Oscilloscopes Probes	
Multimeter, Analog/Digital Multimeter, Benchtop Oscilloscopes Probes	
Multimeter, Analog/Digital Multimeter, Benchtop Oscilloscopes Probes	
Multimeter, Analog/Digital Multimeter, Benchtop Oscilloscopes Probes	
Multimeter, Analog/Digital Multimeter, Benchtop Oscilloscopes Probes	
Multimeter, Analog/Digital Multimeter, Benchtop Oscilloscopes Probes	
Multimeter, Analog/Digital Multimeter, Benchtop Oscilloscopes Probes	
Multimeter, Analog/Digital Multimeter, Benchtop Oscilloscopes Probes	
Multimeter, Analog/Digital Multimeter, Benchtop Oscilloscopes Probes	
Multimeter, Analog/Digital Multimeter, Benchtop Oscilloscopes Probes Programmers/Testers Shunt Signal Generator/Analyzer Software Thermometers Tone/Telephone Voltage/Metal Detectors TEST LEADS/PROBES/CLIPS 25 THERMISTORS, NTC. THERMODELECTRIC COOLERS/CHIPS THERMOBELECTRIC COOLERS/CHIPS TIME/TEMPERATURE METERS TOOL KITS TOOLS Anti-Static Bits (Rotary). Calipers. Cases Center Punch. Compression Crimping/Stripping/Cutting Drills File Sets Fish Tape Glue Gun Grinder (Electric)	
Multimeter, Analog/Digital Multimeter, Benchtop Oscilloscopes Probes	
Multimeter, Analog/Digital Multimeter, Benchtop Oscilloscopes Probes	
Multimeter, Analog/Digital Multimeter, Benchtop Oscilloscopes Probes	
Multimeter, Analog/Digital Multimeter, Benchtop Oscilloscopes Probes	
Multimeter, Analog/Digital Multimeter, Benchtop Oscilloscopes Probes	
Multimeter, Analog/Digital Multimeter, Benchtop Oscilloscopes Probes	
Multimeter, Analog/Digital Multimeter, Benchtop Oscilloscopes Probes	
Multimeter, Analog/Digital Multimeter, Benchtop Oscilloscopes Probes Programmers/Testers Shunt Signal Generator/Analyzer Software Substitution Boxes Thermometers Tone/Telephone Voltage/Metal Detectors TEST LEADS/PROBES/CLIPS TEST LEADS/PROBES/CLIPS TEST LEADS/PROBES/CLIPS THERMOSTORS, NTC THERMOBETERS TIE MOUNTS TIME/TEMPERATURE METERS TOOL KITS TOOLS Anti-Static Bits (Rotary) Calipers Cases Center Punch Compression Crimping/Stripping/Cutting Drills File Sets Fish Tape Glue Gun Grinder (Electric) Heat Guns Hemostat IC Insertion/Extraction Kits/Sets Knife Set.	
Multimeter, Analog/Digital Multimeter, Benchtop Oscilloscopes Probes Programmers/Testers Shunt Signal Generator/Analyzer Software Substitution Boxes Thermometers Tone/Telephone Voltage/Metal Detectors TEST LEADS/PROBES/CLIPS TEST LEADS/PROBES/CLIPS TEST LEADS/PROBES/CLIPS THERMOSTORS, NTC THERMOBETERS TIE MOUNTS TIME/TEMPERATURE METERS TOOL KITS TOOLS Anti-Static Bits (Rotary) Calipers Cases Center Punch Compression Crimping/Stripping/Cutting Drills File Sets Fish Tape Glue Gun Grinder (Electric) Heat Guns Hemostat IC Insertion/Extraction Kits/Sets Knife Set.	
Multimeter, Analog/Digital Multimeter, Benchtop Oscilloscopes Probes	
Multimeter, Analog/Digital Multimeter, Benchtop Oscilloscopes Probes Programmers/Testers Shunt Signal Generator/Analyzer Software Substitution Boxes Thermometers Tone/Telephone Voltage/Metal Detectors TEST LEADS/PROBES/CLIPS TEST LEADS/PROBES/CLIPS TEST LEADS/PROBES/CLIPS THERMOSTORS, NTC THERMOBETERS TIE MOUNTS TIME/TEMPERATURE METERS TOOL KITS TOOLS Anti-Static Bits (Rotary) Calipers Cases Center Punch Compression Crimping/Stripping/Cutting Drills File Sets Fish Tape Glue Gun Grinder (Electric) Heat Guns Hemostat IC Insertion/Extraction Kits/Sets Knife Set.	
Multimeter, Analog/Digital Multimeter, Benchtop Oscilloscopes Probes	
Multimeter, Analog/Digital Multimeter, Benchtop Oscilloscopes Probes	
Multimeter, Analog/Digital Multimeter, Benchtop Oscilloscopes Probes	
Multimeter, Analog/Digital Multimeter, Benchtop Oscilloscopes Probes	
Multimeter, Analog/Digital Multimeter, Benchtop Oscilloscopes Probes	
Multimeter, Analog/Digital Multimeter, Benchtop Oscilloscopes Probes	
Multimeter, Analog/Digital Multimeter, Benchtop Oscilloscopes Probes	
Multimeter, Analog/Digital Multimeter, Benchtop Oscilloscopes Probes	
Multimeter, Analog/Digital Multimeter, Benchtop Oscilloscopes Probes	

Red indicates new products found on these pages.

	000.00
Ratchet/Socket Drivers	
Reamer	230
Rivet	
Saws	
Screw/Nut Drivers	
Soldering	
Spring-Hook	23
Stapler/Staples	229
Tape Measure	
Tweezers	230,239
Vises	22,723,737,237
Wire Wrap Wire/Coax Cutters/Strippers	اکےکال
Wire/Coax Cutters/Strippers	228,232
Wrenches TRANSFORMERS	220,230
Current	100
International Step Up/Down	102
International Step Op/DownIsolated	
Modem Coupling	
Power/Split Pobbin	
Power/Split Bobbin	170,178
Table-Top	
Variable	
Wall (AC and DC)	170 177
TRANSIENT VOLTAGE SUPPRESSOI	112-111
TRANSISTORS	42 AE EO E
TRANSMITTER, CAMERA	20-02
TRIAC COUPLER	
TRIACS	
TWEEZERS	
UARTs	27,230,241
ULTRASONIC SENSORS	1/1 253
UPS SYSTEMS	
USB PRODUCTS	202
Adapters/Connectors	01 111
Cable	
Cards	
Hubs	
Miscellaneous	01 102 100 201 20
Pocket/Thumb Drives	
UVP EPROM ERASERS	
UVP EPROWERASERS	243
V-Z	
V-L	
VACUUM PENS	234
VARISTORS	
VGA/VIDEO CARDS	205

V-Z	
VACUUM PENS	234
VARISTORS	53,78
VGA/VIDEO CARDS	205
VIDEO ADAPTERS	207
VIDEO CONVERTERS	205
VIDEO MODULATORS	208
VIDEO MONITORS	
VIDEO RAM	
VISES	237,238
VOICE CHIPS/MODULES	
VOICE RECORDER	
VOLTAGE REGULATORS	36,37
WALL ADAPTERS	
AC to AC	177
AC to DC	171-177
AC/DC Switching	169,173
Enclosures	178
Interchangeable Plug	
Medical	172
WALL JACKS/PLATES	92, <mark>93</mark>
WALL MOUNTS, TV/MONITOR	209
WASHERS	101,144
WIRE & CABLE MANAGEMENT	94,95
WIRE JUMPERS	243
WIRE/CABLE, BULK (Also Cable Assemblies)	
Coaxial Cable	84,85,88, <mark>257</mark>
Computer Cable	
Flat Ribbon Cable	
Flat Wire	
FlexinolHookup Wire, Solid/Stranded	ZDD
Markers	05,00,08
Modular Telephone Cable	94
Muscle Wire	255
Power/Speaker Wire	
Retractable	
Speaker	
Telephone	88 257
Ties	
Tools	
Twisted Pair/Category 5 (UTP)	
Twisted Pair/Category 5e (UTP)	86.87
USB	
Wire Management	
Wire Wrap	
WIRELESS PRODUCTS	204 207
ZENER DIODES	

Λ	DVE168,173	Li Shin169	Quotrek176
A	EE Tools248	Ligitek62	Rabbit13-15
3Com169,176,196	E-Lab33	LiteOn57,60	Racal177
3M92,94,95,121,144,233	Elpac170	Lite-On	RAF Elec. Hardware144
3Y Power Technology203	Emacs	BA BI	RCA
ACDC	Emerging Display Technologies189 Encad154	M-N	Regal Electronics154,171,174 RMV Electronics124
Act World	Enhance	Mabuchi Motor126	ROHM60
Adda146,147,149	EOS154,169	Magnecraft139	Rotron149
AEEC211	ESP247	Mastech211,213,215	Salom Electric174
AESP174	Eveready Energizer183	Matrix Orbital	Samsung43
AK II Power Supply173	Everglow169,171,175-177 Excel140	McGraw-Hill	SanDisk
AldenWrench	Excel Cell Electronics (ECE)79,140	Measurement Computing195,196	Scott Edwards
Alpha	Explore Tech175	Mechatronics146-148	Sensory, Inc
AmbiCom	Extech200,211,213,214,216,219,243	MEI174	Sequoia195
American Media203	EZ Digital214,217,218	Memorex204	Servoflo141
American Zettler140		Metex174,211,213,214,216,218,219	Sharp140
AMP100,106,120	<u>F-H</u>	MG Electronics	Shin Mei140
Amphenol	Fairchild17,18,20-26,31,44	Micro Engineering Labs247 Microchip10-12	Shogyo
Ampire	Fairway Elec174	MicroMint16	Sincore
AnaChip	Fellowes	Mission Technology217	Skynet
Anachip/ICT16	Fluke210-214,216,221	Mitsumi126	SL Waber202
APEM131	Focus Enhancements205	Molex102,103,107-109,231	Smart Communications249
APS171,175,203	Fortron157,170	Mondo-Tronics255	Solomon
APX Technologies174	Freeplay	Motorola	Sony194,206,207
Aries108,109	Freescale Semiconductor	Mountain Switch (Xicor)131	Soyo
Aromat	Fuiikura141	N-P	Square 1 Publishing10,11
Artesyn151-155,165,166,168 Atari175	Fulltech	14-1	St. Micro
ATEN	Gateway204	Namiki128	Stanley226
Atmel	GBM122,123,125	National Semiconductor17,18,20,	Star Motor126
Ault169,170,173,177	GC/Waldom102	22-24,31,44,60	Steren97
Autec154	GetOn	NEC140	SUN Microsystems204
AVerMedia205	Giga-Byte	Netgear	Sunon146-149 Super Mac150
D C	Globe Motors146-148	Nichibo	Superworld
B-C	GlobTek160,169,170,172-174,176	Nidec146,147	Switchcraft98,99,129
Belden64,84-87,257	Go Forward169	Nite Ize239	SYBA
Belkin	Grayhill135,136	NiteRider176	
Bellin Dynamic Systems, Inc246	GTE175	Nitgen204	T-U
Beta139	Hanlong228,229,231,247	NMB147,148	Tab D blishing 40 40 4 000 05 4
Bi-Sonic149	Harman/Kardon195 Hewlett Packard60	NOMA	Tab Publishing48,124,222,254 Tamura150
BK Precision	Hickman's48	NTE	TEAC
Black Magic         200           Bomar         93	High Power173,203	Ocular, Inc	Tech Spray238,241
Both Hand	Highly Electric129,141	OEG140	Techflex, Inc94
Bourns75,76	Hightext Publishing200	Omron129,136,139	Telco126
Brother171	Hi-Lo Systems249	On Semiconductor17,18,21,22,	Teledyne140
Bug Box244	Honeywell	24,31,44,206	Tempest
Butterworth-Heinemann	Honeywell/Clarostat	Optrex	Terayon171 Texas Instruments12,17-28,60
Calrad	Hsiang Neng126	Orig. Elec. Mfg	Thames & Kosmos252
Cebek252	Tiolang Nong	OST119,164	TODD
Cheng	I-L	OWI253,256	Toshiba17,18,20-24,31
Cherokee		Pacific Data171	Toyo146-148
China Semiconductor60	I One (formerly Qtronix)201,204	Pacrim177	Tripp-Lite202
ChipQuik246	IBM198	Paladin Tools (ConnecTool)143,222,232	Trisys
Cinch	Ideal	Panaflo147 Panasonic60,175	Tysonic
Circuit Assembly111,112 Cisco168	Industrial Fiber Optics112	Panavise113,237,238	Uniden
Clare	Instek214,215,218	PAPST147,148	Unig
Climax	Integrated Power Design154	Parallax	US Robotics177
Common Wealth146-148	Intel192,193	PC Concepts204	UVP249
Compaq204	Interex173	PC Power203	W 7
COMPEX196	ISD16	Pentium192,193	V-Z
Comtrend	Isobar202	Phihong150,152,155,168-170,172,173	VCC61,62
Converter Concepts	ITE Power Supply169,177  Jamicon146-148	Philips17,18,20-25,30,173	Vector 245
COSMO	JDV Products111	Phoebe	Velleman62,139,211,215,216,252,253
Crossbow	Johnson Electric	Picvue	Vishay44
Crydom140	Judd Wire88	Pomona218,220-222	VL Electronics188
CUI Stack175,176	JV Enterprises242	Pontech124	Volgen159
	KAE34,124	Potrans173	Wahl226,236
D-E	Kester238	Potter & Brumfield137,138	Wavetek/Meterman213,219
Dallas Samioandustara 24 42	Kingston	PowerFilm250,251,256	Western Digital
Dallas Semiconductors	Kouwell	Power-One152,154	Western Digital
Dantona	Kulka	Provision Navigation Inc.	Wintec
Decade 205	Kyoto140	Precision Navigation, Inc255 Probe Master217,221	Xcelite
Delta146,147,154,169,173	Lakeview Research195,198	Protek	Xeltek
Digital Power155	Lambda	110.00214,217	Xircom175
DigiVue207	Lascar215	Q-S	Xtreme Power203
Dinkle	Leader Electronics176,177		Xytronic233-238
Drake	Leap202,249	QSE	Yate Loon147
Duracell183	Ledtech59,60	Qtronix204	Zilog8







348841CH

348824CH

Flat ribbon cables blocks airflow within a computer system, but with round internal cables, it will improve internal airflow in any computer system.

For additional drive cables see page 89.

# Round Serial ATA cables

- · Color: red
- 7-pin connector

M	S	h	//	

Part No.	Description	Length	1	10	25
348710CH	90°	19.9" \$	4.69	\$4.11	\$3.91
348744CH	90°	39.4"	5.89	5.21	4.95
348728CH	180°	19.9"	4.69	4.11	3.91
348736CH	180°	39.4"	5.89	5.21	4.95

# Round ATA-133 cables

• Dual 40-pin ATA-133/IDE

Part No.	Color	Length	1 10	25
348752CH	Blue	18" <b>\$4.6</b> 9	9 \$4.27	\$4.05
348761CH	Black	18" <b>4.6</b> °	9 4.27	4.05
348779CH	Blue	24" 5.4!	5.12	4.87
348787CH	Black	24" 5.4!	5.12	4.87

# Round Floppy Drive Cables

· 34-pin connectors

Part No.	Color	Length 1	10	25
348795CH	Blue	18" <b>\$6.59</b>	\$6.59	\$5.77
348808CH	Black	18" <b>6.59</b>	6.07	5.77
348816CH	Blue	24" <b>7.69</b>	7.21	6.85

#### Serial ATA Power Cable Extension

• 15-pin serial ATA power connector to 4-pin power connector

Part No.	Size	1	10	25
348841CH	6"L x 18 AWG	2.79	\$2.56	\$2.43

#### IDE to Serial ATA Converter

· Converts 40-pin HDD connector to serial ATA connector

Includes: converter unit, power cables and serial ATA cable

Part No.	Description	1	10
348824CH	IDE to serial ATA	\$28.99	\$27.55

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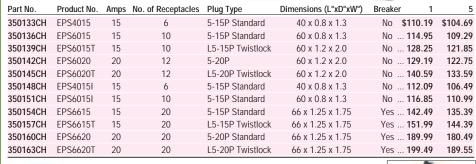


# apw

# Standard Vertical Mount Power Strips\*

 Voltage rating: 125V Cord length: 15 feet





# apw

# Standard 19" Rackmount Power Strips\*

 Voltage rating: 125V Cord length: 15 feet





Part No.	Product No.	Amps	No. of Receptacles	Plug Type	Dimensions (L"xD"xW")	Breaker 1	5
350166CH	EPS1620	20	6	5-20P Standard	1.75 x 5 x 19	No \$109.25	\$103.79
350169CH	EPS1620T	20	6	L5-20P Twistlock	1.75 x 5 x 19	No 123.49	117.35
350172CH	EPS20RM	20	6	5-20P Standard	1.75 x 5 x 19	Yes 113.99	108.29
350175CH	EPS20RMS	20	6	5-20P Standard	1.75 x 5 x 19	Yes 156.75	148.89
350178CH	EPS20RMT	20	6	L5-20P Twistlock	1.75 x 5 x 19	Yes 128.25	121.85
350181CH	EPS15RXS	15	10	5-20P Standard	1.75 x 5 x 19	Yes 150.09	142.59
350184CH	EPS15RMS	15	6	5-20P Standard	1.75 x 5 x 19	Yes 108.29	102.89
350187CH	EPS15RDS	15	8	5-20P Standard	1.75 x 5 x 19	Yes 163.39	155.25

# apw

# Full Depth Sliding and Fixed Shelves\*

# 4-point mounting

• 19" rack mountable Black

Description

Product No.



Depth

Type



Part No.

350097CH	ES1919	Medium Duty, 100lb. capacity	Vented	19.25" <b>\$48.45</b>	\$45.99	
350100CH	ES1924	Medium Duty, 100lb. capacity	Vented	24.00" 53.19	50.55	
350103CH	ES1928	Medium Duty, 100lb. capacity	Vented	28.00" <b>57.95</b>	55.05	
350106CH	HDES1919	Heavy Duty, 400lb. capacity	Vented	19.25" <b>90.25</b>	85.75	
350109CH	HDES1924	Heavy Duty, 400lb. capacity	Vented	24.00" 113.99	108.29	
350112CH	HDES1928	Heavy Duty, 400lb. capacity	Vented	28.00" <b>128.25</b>	121.85	
Roll-Out Shelf						
350115CH	SS1919	Medium Duty, 75lb. capacity	Vented	19.25" <b>\$128.25</b>	\$121.85	
350115CH 350118CH	SS1919 SS1924	Medium Duty, 75lb. capacity Medium Duty, 75lb. capacity	Vented Vented	19.25" \$128.25 24.00" 142.49	\$121.85 135.39	
		J. 1 J				
350118CH	SS1924	Medium Duty, 75lb. capacity	Vented	24.00" 142.49	135.39	
350118CH 350121CH	SS1924 SS1928	Medium Duty, 75lb. capacity Medium Duty, 75lb. capacity	Vented Vented	24.00" 142.49 28.00" 170.99	135.39 162.45	
350118CH 350121CH 350124CH	SS1924 SS1928 HDSS1919	Medium Duty, 75lb. capacity Medium Duty, 75lb. capacity Heavy Duty, 150lb. capacity	Vented Vented Vented	24.00"	135.39 162.45 135.39	

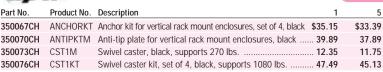
#### Rack Mountable Exhaust Fan

Part No.	Product No.	Voltage	CFM	Size	1	į.
350211CH	WCF110	115V	110	6.77"Dia x 1.5"D	\$93.09	\$88.45

# apw

# Floor Attachments and Casters

*	NE





\*To minimize shipping costs, all APW products ship direct from the manufacturer. Additionally, Jameco can offer the special shipping rate of 10% of total APW product sales for all APW products.



For Additional Rack Mount Accessories see pages 190-191



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# Wi-Fi Application Development Kit

Rabbit Semiconductor's™ Wi-Fi Application Kit provides all of the tools necessary to design and test communications from a Rabbit-based device to a Wi-Fi enabled device like a PC Laptop. The libraries and sample programs enable a Wi-Fi card to



send and receive data to/from an RCM3100
RabbitCore™ module. The RCM can also send/receive email from any PC or device with a compatible Wi-Fi card. Includes Dynamic C\*

PC or device with a compatible Wi-Fi card. Includes Dynamic C\* software with royalty-free TCP/IP stack.

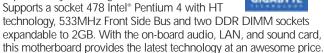
Part No.	Description	Price
321681CH	Wi-Fi Application Kit	\$568.95

For additional Rabbit Semiconductor products see pages 13-15.

# Low-Cost, High-Powered Motherboard

This GIGA-BYTE® motherboard is a great platform for compact computers or embedded systems. Its price may be low, but for features, format and functionality, it can't be beat. Six USB 2.0/1.1 compliant ports and three PCI 2.2

compliant slots pack a lot of expandability into its tight micro ATX form factor.



Part No.	Description	Price
345033CH	Motherboard (GA-8I845GVM-RZ)\$	76.35

For additional GIGA-BYTE® motherboards see page 192.

# **Kingston Compact Flash**



These type-1 removable, compact cards are ideal storage solutions for storing more pictures with your digital camera, listening to more music with your MP3 player, and increasing the productivity of your PDA, palmtop, or handheld PC.

Part No.	Description	Price
344962CH	128MB	\$18.99
344971CH	256MB	\$31.69
344989CH	512MB	\$53.55

For card readers see page 199.

# Wireless Weatherproof Color Camera

Keep your
perimeter
secure with
this all-weather,
indoor/outdoor
motion-sensing
camera. Passive IR
technology activates the camera
for recording and reviewing efficiency.

And because its wireless, you can locate the camera where you need it most, with no cabling hassles.

Part No.	Description	Price
319871CH	Camera	\$236.55

For complete details see page 207.

# **Ultra-Bright White LED**



Brighten
up your designs
with our brightest LED!
Featuring a standard 5mm size,
5,500mcd maximum rating, and 7500k
color temperature which delivers a cool
white color similar to a fluorescent, your
applications are endless.

Use for illumination, emergency lights, nighttime security cameras, or as an attention-getting panel indicator.

	Part No.	Description	Price
	320531CH	Ultra Bright White LED	\$1.09
	For expanded line of LEDs see pages 55-59.		



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